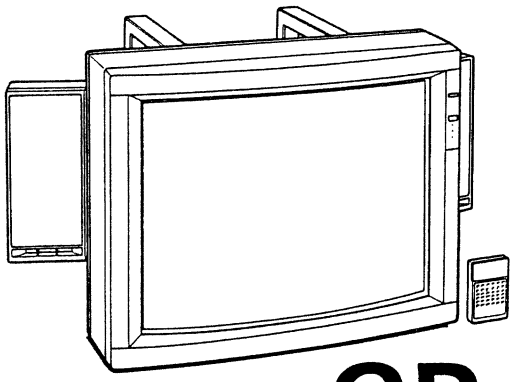
KV-3400/KV-2900

SERVICE MANUAL

GE Model

Chassis No. SCC-C41A-A



GP-2A CHASSIS

Note: The service manual for RM-679 MT have been issued separately.

MODELS OF THE SAME SERIES	
KV-2900T	
KV-3400V2	
KV-3400DV2	

SPECIFICATIONS

Television standards	B/G, H, I, M, D/K
Color system	PAL, SECAM, NTSC4.43, NTSC3.58
Channel coverage	See "Receivable channel by channel system" on page 2.
Picture tube	29-inch (approx. 72.4 cm) Trinitron tube (approx. 68 cm picture measured diagonally) 110-degree deflection
Antenna	75-ohm external antenna terminal
Inputs	VIDEO-1, 2 (phono jacks) Video: 1 Vp-p, 75 ohms, unbalanced, sync negative Audio: 0.5 Vrms (standard level, 47 kilohms) S-TERMINAL (4-pin mini DIN) Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms VIDEO 3 (21-pin connector) CENELEC standard
Outputs	MAIN MONITOR OUT (phono jacks) Video: 1 Vp-p, 75 ohms unbalanced, sync negative Audio: 0.5 Vrms (standard level, 47 kilohms) EXT SPEAKER (Speaker terminals) Accepts 8-ohm speakers
Speaker	15 W + 15 W, Impedance 8 ohms
Power requirements	110–240 V AC, 50/60 Hz
Power consumption	180 W
Dimensions	Approx. 673 × 542 × 525 mm (w/h/d) (26 1/2 × 21 3/8 × 20 3/4 inches)
Weight	Approx. 52 kg (114 lb 10oz)
Accessories supplied	RM-679MT Remote Commander with 2 R6 batteries (1) Speakers with speaker cords (1 pair) Power cord plug adaptor (1)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

Receivable Channel by Channel System

MIDDLE EAST/ASIA (B/G, H*)

Receivable Channel	Channel Display
E-2 to E-12 E-21 to E-69	C02 to C12 C21 to C69
Indonesia	
2 to 11	C03 to C12
Morocco	
M-4 to M-7 M-8 to M-10	C70 to C73 C08 to C10
New zealand	
2 3 4 to 9	C03 C04 C05 to C10

CATV WEST EUROPE (B/G, H)

Receivable Channel	Channel Display
S-01 to S-03 S-1 to S-20	C42 to C44 C01 to C20

AUSTRALIA (B/G, H)

Receivable Channel	Channel Display
AS-0 to AS-11 AS-5A AS-28 to AS-69	C00 to C11 C12 C28 to C69

HK/UK (I)

Receivable Channel	Channel Display
Hong Kong, United Kingdom	
B-21 to B-68	C21 to C68
Ireland	
B, C,..., J	C02, 03,..., C09
South Africa	
4 to 13 21 to 68	C04 to C13 C21 to C68

E. EUROPE/CHINA (D/K)

Receivable Channel	Channel Display
East European countries	
R-1 to R-12 R-21 to R-60	C01 to C12 C21 to C60
China	
C-1 C-2 C-3 C-4 C-5 C-6 7 to 12 28 to 34 39 to 63	C01 C02 C13 C03 C04 C14 C06 to C11 C28 to C34 C39 to C63

AMERICA (M)

Receivable Channel	Channel Display
2 to 69	C02 to C69
Japan	
J-5 to J-11 J-13 to J-62	C07 to C13 C14 to C63

CATV AMERICA (M)

Receivable Channel	Channel Display
2 to 13 A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A, B,..., W	C02 to C13 C99 C98 C97 C96 C95 C06 C05 C01 C14, C15,...C36
Japan	
J-1 to J-3 J-5 to J-11 J-12	C95 to C97 C07 to C13 C23

*TV system

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠ MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

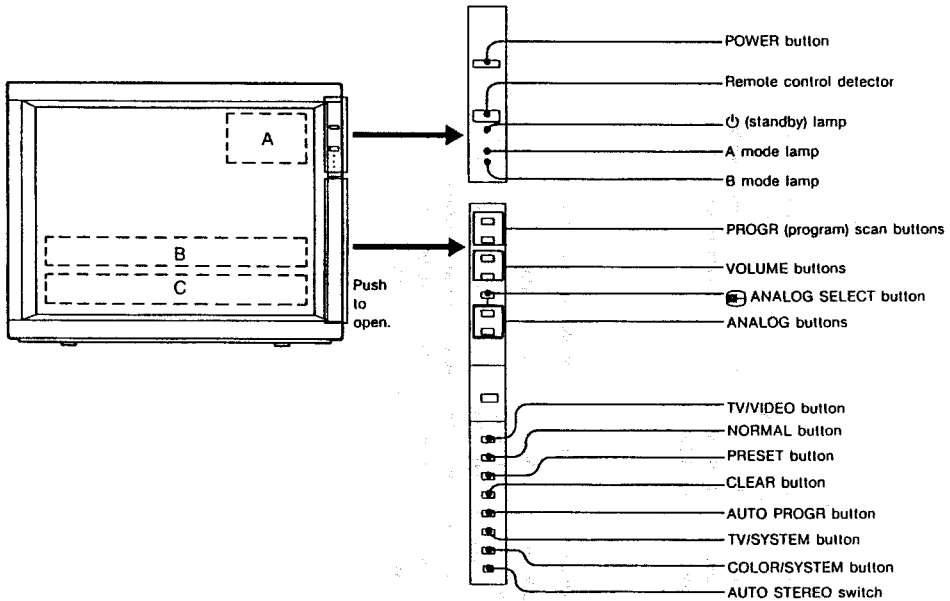
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

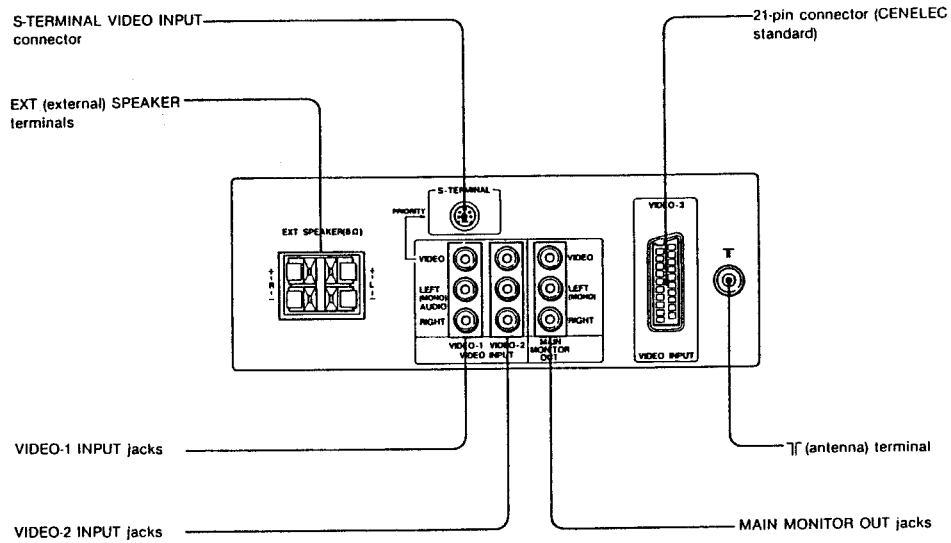
SECTION 1
GENERAL

1-1. LOCATION OF CONTOROLS

Front



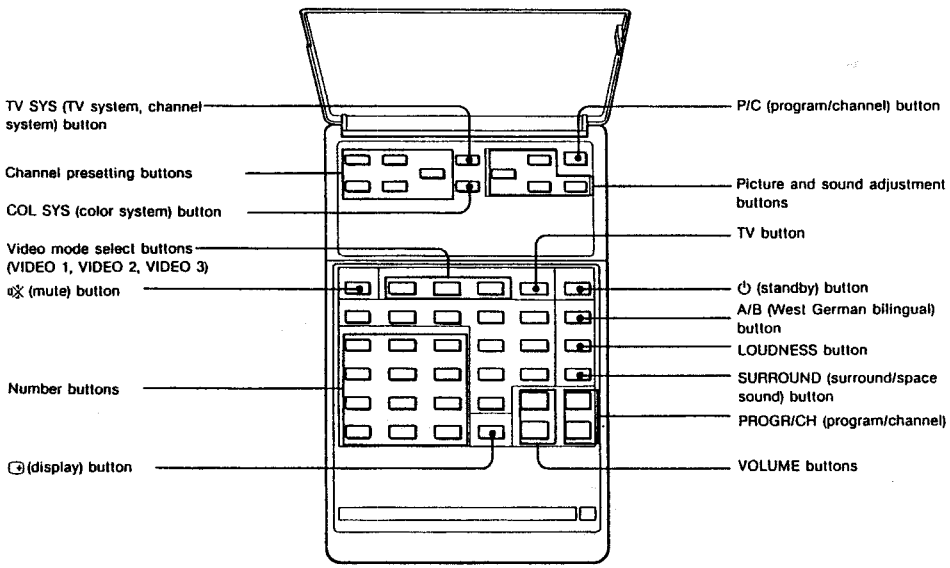
Rear



On-screen displays

- A
  - Program position and station name or channel number
  - Video input mode
- B
  - Channel system
  - TV system and color system
- C
  - Item and bar display for volume, picture and sound adjustments
  - Surround/space sound, loudness and muting modes

Remote Commander RM-679MT



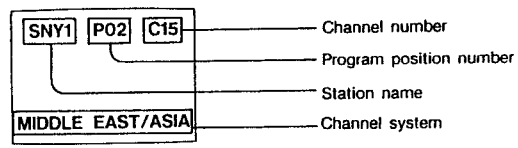
1-2. PRESETTING CHANNELS

Both automatic and manual presetting are available.

Before Presetting

- Turn on the TV.
- If the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication is displayed on the screen, press the TV button so that a program or channel number is displayed.

On-screen display during presetting



Each time TV SYS is pressed in the channel presetting mode, the channel system changes as follows:

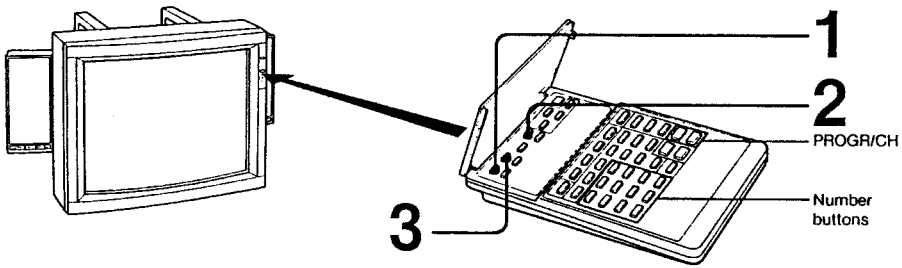
MIDDLE EAST/ASIA → CATV W.EUROPE → AUSTRALIA → HK/UK → E.EUROPE/CHINA → AMERICA → CATV AMERICA →

The TV system and color system are automatically set according to the channel system.

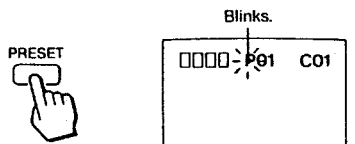
Channel system	TV system	Color system
MIDDLE EAST/ASIA	B/G,H; West European TV standard	AUTO
CATV W.EUROPE	B/G,H; West European TV standard	AUTO
AUSTRALIA	B/G,H; Australian TV standard	AUTO
HK/UK	I; British TV standard	AUTO
E. EUROPE/CHINA	D/K; East European TV standard	AUTO
AMERICA	M; American TV standard	AUTO
CATV AMERICA	M; American TV standard	AUTO

Automatic Presetting

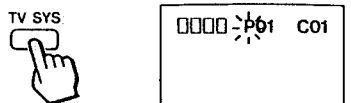
Up to 30 receivable channels from the lowest channel are automatically preset in the consecutive program positions.



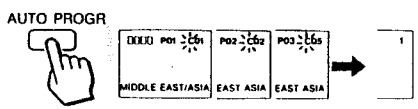
1 **Press PRESET.**



2 **Select the appropriate channel system referring to the "Channel system by country" on page 21.**

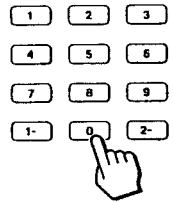


3 **Press AUTO PROGR.**

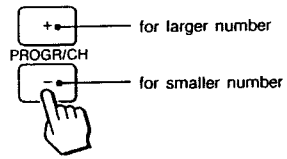


All receivable channels are preset in numerical sequence beginning from program position 1. When no more channels can be found, the presetting mode is released and the program position 1 will be displayed on the screen.

If you want to begin presetting channels from the desired program position, select the program position with the number buttons or PROGR/CH +/– and then press AUTO PROGR.



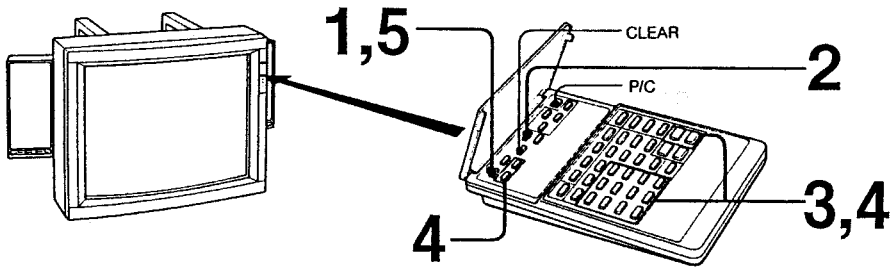
e.g. To select program position 2, press "2".
To select program position 12, press "1–" and then "2".
To select program position 22, press "2–" and then "2".



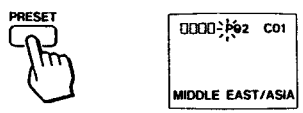
All receivable channels are preset in numerical sequence beginning from the selected program position.

Manual Presetting

To preset a receivable channel in a desired program position, use manual presetting.



1 **Press PRESET.**

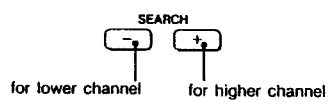


2 **Press TV SYS to select the appropriate channel system.**

3 **Select the desired program position with the number buttons or PROGR/CH +/– buttons.**

4 **Tune in the desired channel.** There are two ways:

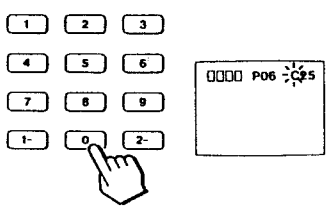
Press SEARCH +/– repeatedly until the desired channel appears.



Each time SEARCH +/– is pressed, the adjacent channel is automatically tuned in.

Press P/C to make the "C" indication blink. Then select the desired channel directly. (Refer to the "Receivable channel by channel system" on page 24.)

To select channel 5, press "0" and then "5".
To select channel 25, press "2" and then "5".



To scan the channel, press PROGR/CH + (for higher channel) or – (for lower channel).

Repeat steps 2 to 4 for other desired channels.

5 **Press PRESET.**

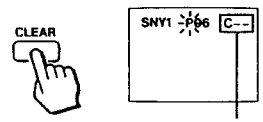
Skipping Program Positions

For skipping of undesired program positions when PROGR/CH +/– is pressed, proceed as follows.

1 Press PRESET.

2 Select the program position to be skipped with PROGR/CH +/– or the number buttons.

3 Press CLEAR.



Indicates that program 6 has been skipped.

4 Press PRESET.

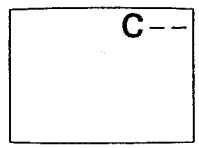
Repeat 1 to 4 for other positions to be skipped.

To restore a skipped program position, preset the desired channel in that position following "Manual presetting" on page 12.

Skipping Channels

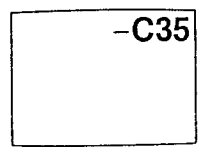
For skipping of undesired channels when PROGR/CH +/– is pressed, proceed as follows.

1 Press P/C so that the "C--" indication appears on the screen.



2 Select the channel number to be skipped with the number buttons or PROGR/CH +/–.

3 Press CLEAR.



A "–" appears, indicating that the channel has been skipped from channel scan memory.

Repeat steps 1 to 3 for other channels to be skipped.

To restore the skipped channel, make that channel appear on the screen and press PRESET.
A "+" appears on the left of the channel number, indicating that the channel has been added.

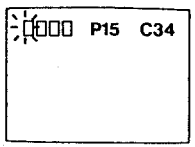
To Give a Program Position a Station Name

You can give a station name to each program position to identify the received channel for display on the screen together with the program position number, using up to four characters.
Example: To name program position 15 as "SNY1"

1 **Press PRESET.**

2 **Select the program position to be named with the number buttons or PROGR/CH +/–.**

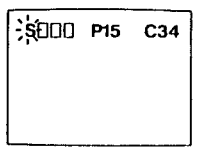
3 **Press** ⊟ .



A desired character can be set to the blinking column.
Each time ⊟ is pressed, the next column blinks.
The fifth press makes the "P" indication blink and the unit returns to channel presetting mode.

4 **Select a desired character.**



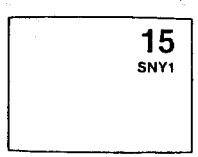


Each time ⊟ + is pressed, the character changes in the following sequence.
0 → 1 → 2 → ...9 → A → B → ... → Z
↑ ■(blank) ←

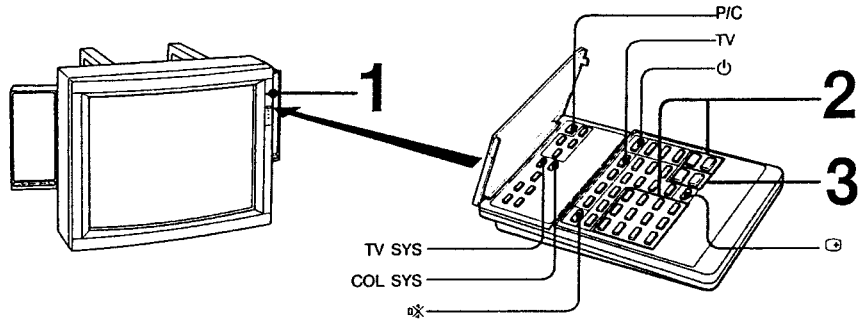
Each time – is pressed, the character changes in the reverse sequence.

5 **Repeat steps 3 and 4 to set the desired station name.**

6 **Press PRESET.**

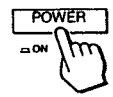


1-3. WATCHING TV PROGRAMS



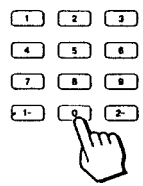
Operation

1 **Turn on the TV.**

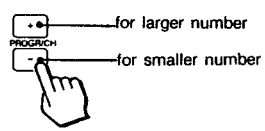


If the "VIDEO 1", "VIDEO 2" or "VIDEO 3" indication is displayed on the screen, press the TV button.

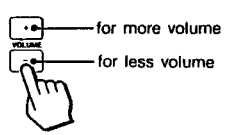
2 **Select the desired program position with the number buttons or PROGR/CH +/–. (Program tuning mode)**



e.g. To select program 6, press 6.
To select program 16, press "1–" and then "6".
To select program 26, press "2–" and then "6".

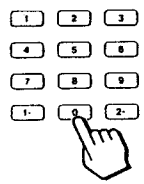


3 **Adjust the volume.**

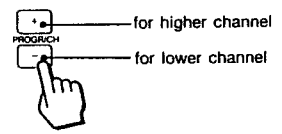


Note on the TV system and color system (only for program tuning mode)
If there is no sound or the sound is distorted, set TV SYS to the TV system which produces clear sound.
If a color program does not appear in color, set COL SYS to the color system which produces normal color.

To select directly the desired channel which is not preset (Channel tuning mode)
Select the appropriate channel system with the TV SYS button and then select the channel. (Refer to the "Channel allocation" on page ⓮.)

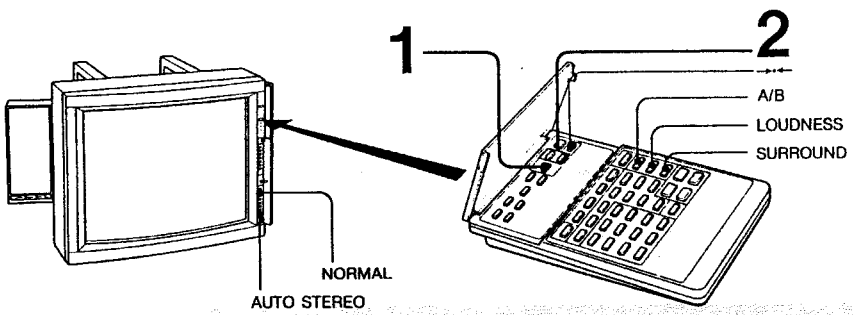


e.g. To select channel 5, press "0" and then "5".
To select channel 25, press "2" and then "5".



To change the tuning mode
Press P/C. The "C--" (Channel tuning mode) or "P--" (Program tuning mode) indication will appear on the screen. Then select the desired channel or program position number as mentioned above. If the numbers are not entered for 10 seconds, the mode will change.

To turn off the TV for a short period of time	Press ⏻. The unit enters the standby mode. The ⏻ lamp lights.
To turn on the TV from the standby mode	Press TV or the desired number button(s).
To cut off the power completely	Press POWER on the unit.
To mute the sound	Press 🔇. The 🔇 indication appears on the screen. Press again or press VOLUME + to restore the sound.
To keep the on-screen indications displayed on the screen.	Press ⊡. Press again to make them disappear.



Picture and Sound Adjustments

The following items can be adjusted by observing the segmented bar display on the screen.

1 Press ⊜ repeatedly until the item you desire to adjust appears on the screen.

2 Press ⊜ +/– to adjust the level of the selected item.

Each time ⊜ is pressed, the item changes in the following order.

Item	– button	+ button
◑ (picture)	for less picture contrast	for more picture contrast
◑ (color)	for less color intensity	for more color intensity.
☼ (brightness)	for less brightness	for more brightness
(hue)	Skin tones become purplish.	Skin tones become greenish.
◫ (sharpness)	for less sharpness	for more sharpness
(bass)	to decrease bass response	to increase bass response
(treble)	to decrease treble response	to increase treble response
(balance)	to emphasize the left speaker's volume	to emphasize the right speaker's volume

To reset the adjustment levels to the factory-set levels
Press →•← or NORMAL on the TV.

To emphasize high and low tones
Press LOUDNESS. The ⊔ indication is displayed on the screen. Press again to restore the normal sound. The indication changes to ⊓ .

Enjoying Surround and Space Sound Effects

To activate surround effect
Press SURROUND until the ⊜ ⫴•⫴•⫴•⫴ indication appears on the screen. You can obtain sound reproduction with the atmosphere of a movie theater or concert hall.

To activate space sound effects
Press SURROUND until the ⊜ ⫴•⫴ indication appears on the screen. You can obtain sound reproduction with special acoustic effects.

To restore the normal sound
Press SURROUND until the ⊜ ⫴•⫴ indication appears on the screen.

Receiving a West German Stereo Program

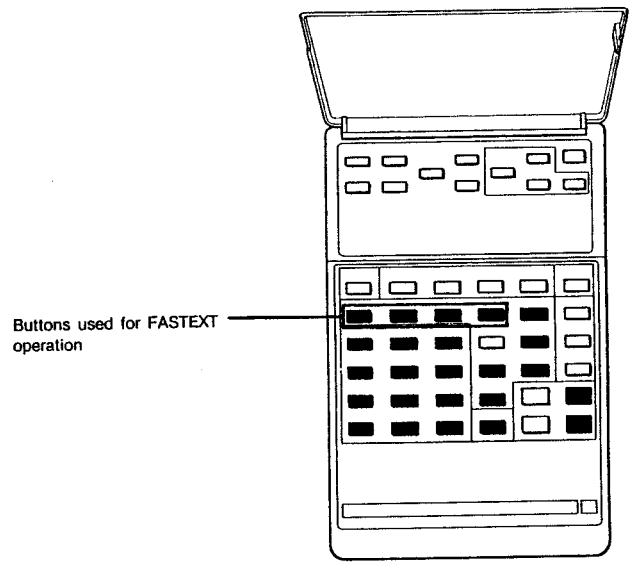
Normally set the AUTO STEREO switch on the TV to ON to receive a stereo broadcast. The A and B mode lamps light. If noise makes it hard to receive a very weak TV stereo program, set the switch to OFF so that the lamps go out. The sound becomes monaural but noise will be reduced.

Listening to a West German Bilingual Program

Either A or B mode lamp lights during a bilingual broadcast. Press A/B to select the desired sound of the bilingual program. Each time this button is pressed, A or B is selected alternately.
(In video input mode, A lamp lights for a left channel, B lamp for a right channel or A and B lamps for both channels.)

1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander.
The buttons for teletext operation are indicated in green.



Operation

1 Select the TV channel for the desired teletext service. When the signal is weak, teletext errors may often occur.

2 Press ⊜/⊜ (TEXT/MIX) to display the teletext service.
Once ⊜/⊜ has been pressed, the TV channel cannot be changed.

3 Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.
The teletext service can be displayed directly from the standby mode by pressing ⊜/⊜.

To receive the teletext service of a different TV channel

1 Press TV to return to the TV mode.

2 Select the desired TV channel.

3 Press ⊜/⊜.

To display the index page

Press (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page

Press (PAGE+) or (PAGE−).

To superimpose the teletext display on the picture

Press / twice from TV mode.
Press / again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed

Press (TEXT CL). This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated/changed

Press (HOLD). The HOLD symbol appears at the top of the screen.

To resume normal teletext reception, press /.

To enlarge the teletext display

Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as answers to a quiz

Press (REVEAL).
Press again to conceal the answers.

To adjust the contrast of the teletext display

When in teletext mode, adjust by using the + or − buttons adjacent to the button.

To watch the TV programme while waiting for a requested page to be displayed

1 Request the new page.

2 Press to watch the TV programme. The requested page number and other data appears at the top of the screen while the page number is being searched for. When the requested page has been captured, the page number remains on the screen and the other data disappears.

P101 (TV picture)

To view this page, press /.

To have a requested page displayed at a pre-determined time.

1 Request a time coded page (e.g. alarm page).

2 Press (TP ON).

"T****" will appear at the bottom of the screen.

T****

3 Enter your request time with the number buttons, using four digits. For example, 0730.

T0730

To watch the TV programme until the requested time, press . At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press /.
To cancel the request, first ensure that the teletext page is displayed, then press (TP OFF).

FASTEXT Operation

FASTEXT Teletext enables you to access pages quickly and conveniently with one key operation.

When a FASTEXT page is broadcast a colour coded menu will appear at the bottom of the screen. **Each coloured prompt relates to the coloured keys on the Remote Commander.** Pressing one of these will select the page described by the prompt.
Selection may also be made by entering the three digit page number in the normal way.

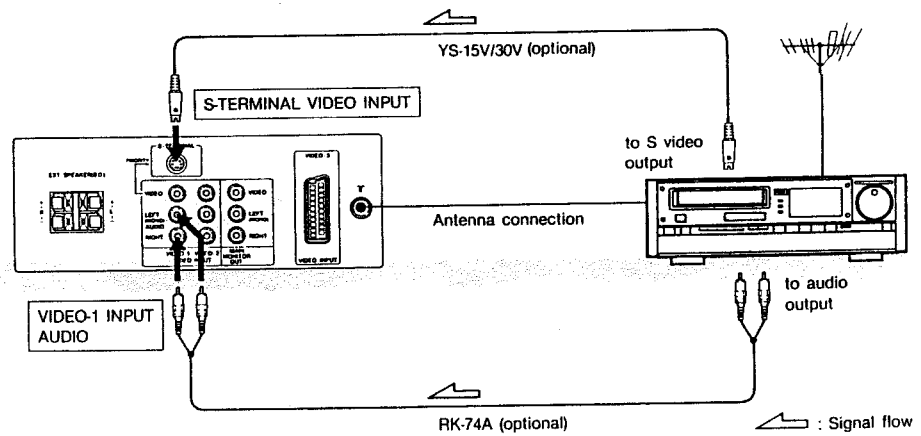
Correct FASTEXT operation relies on the necesary signals being transmitted by the Broadcasting Authorities. It is possible that some Broadcasters will not support this transmission.

If FASTEXT is not transmitted, the decoder will operate as outlined above.

1-5. CONNECTING OTHER EQUIPMENT

Connecting a VTR

Connecting a VTR equipped with the S video output connector



Notes on S-TERMINAL VIDEO INPUT

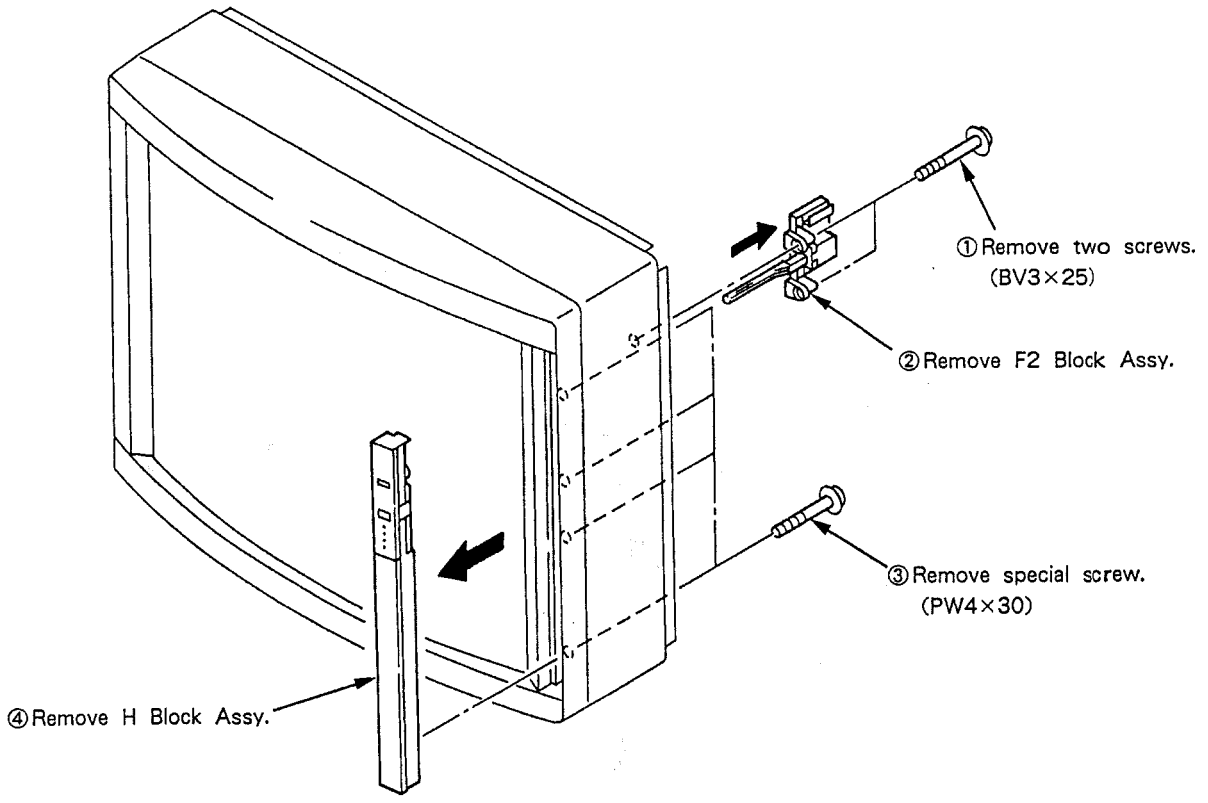
- When the S-TERMINAL VIDEO INPUT is connected, the picture from the video input jack of VIDEO-1 INPUT is not displayed.
- To view the picture from S-TERMINAL VIDEO INPUT, press VIDEO 1.

About S-TERMINAL VIDEO INPUT

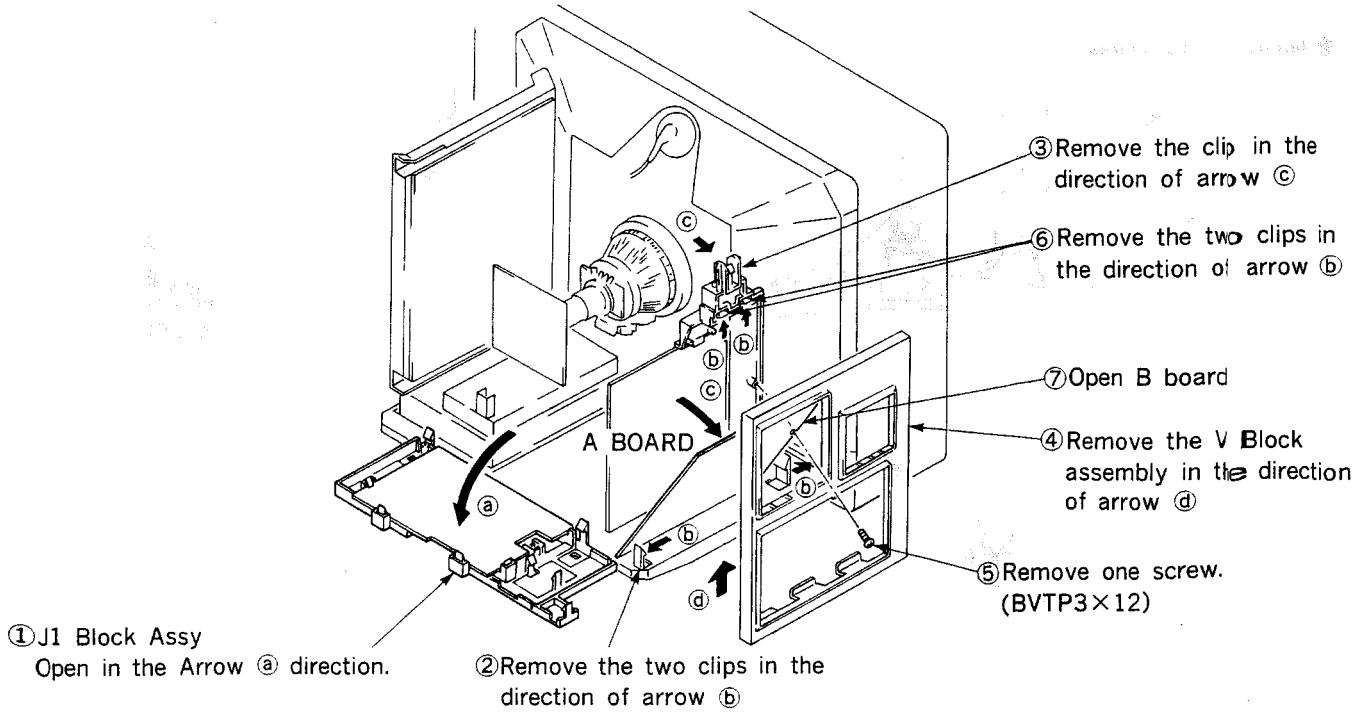
Video input and output signals may be separated into Y (luminance or brightness) and C (chroma or color) signals. Usually these two signals are combined in a VTR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interferring with one another, thereby improving picture (especially in color) quality.
This unit is equipped with an S-TERMINAL VIDEO INPUT through which these separated signals can be input directly.

SECTION 2
DISASSEMBLY

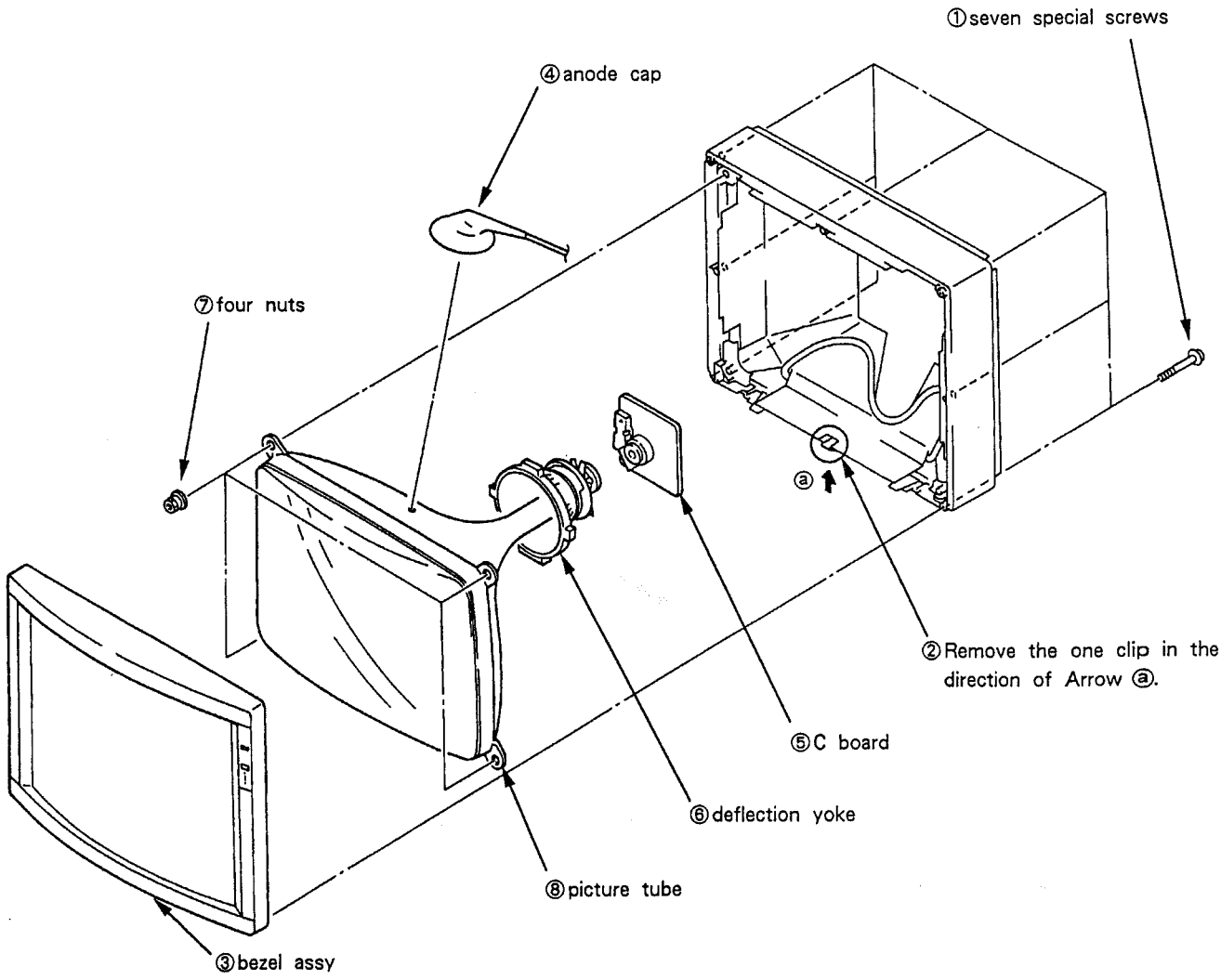
2–1. H BLOCK ASSY REMOVAL



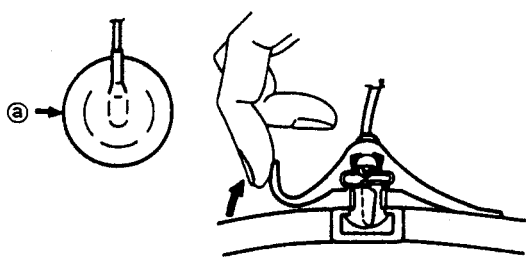
2–2. A BOARD REMOVAL



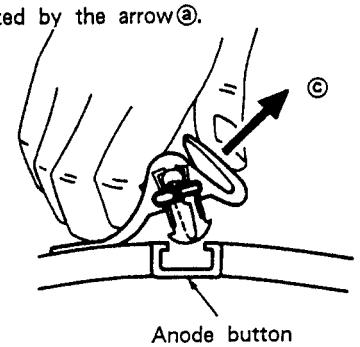
2-3. PICTURE TUBE REMOVAL

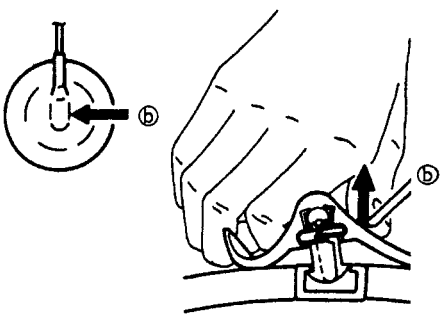


● **Removing Procedures**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.





② Using a thumb,pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

③ When one side of the rubber cap is separated from the anode button,the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑CONTRAST control ····· 80% (or Normal by Commander)
☼BRIGHTNESS control ····· 50%

Perform the adjustments in order as follows :
1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.
1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation
- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
   CONTRAST, BRIGHTNESS } normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3 - 1 — 3 - 3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3 - 4)

Fig. 3-1

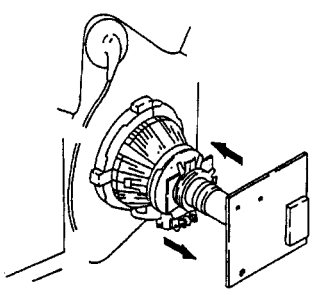


Fig. 3-2

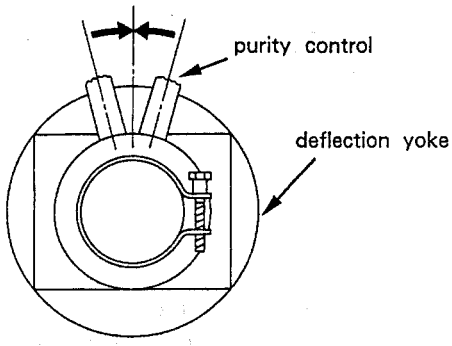


Fig. 3-3

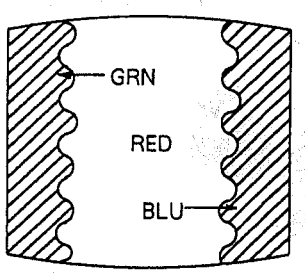
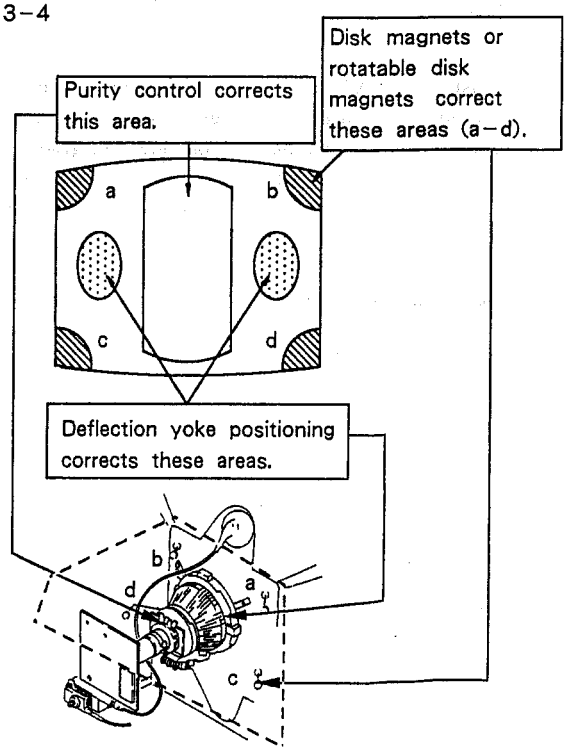


Fig. 3-4

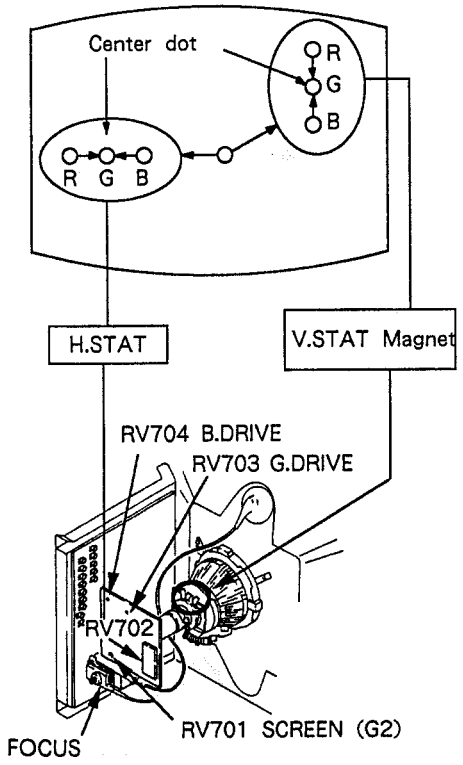


3-2. CONVERGENCE

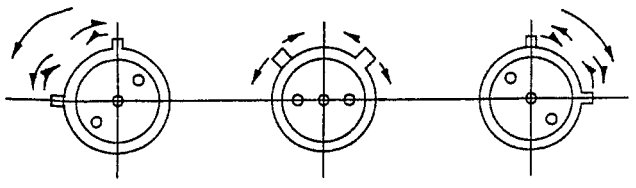
Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

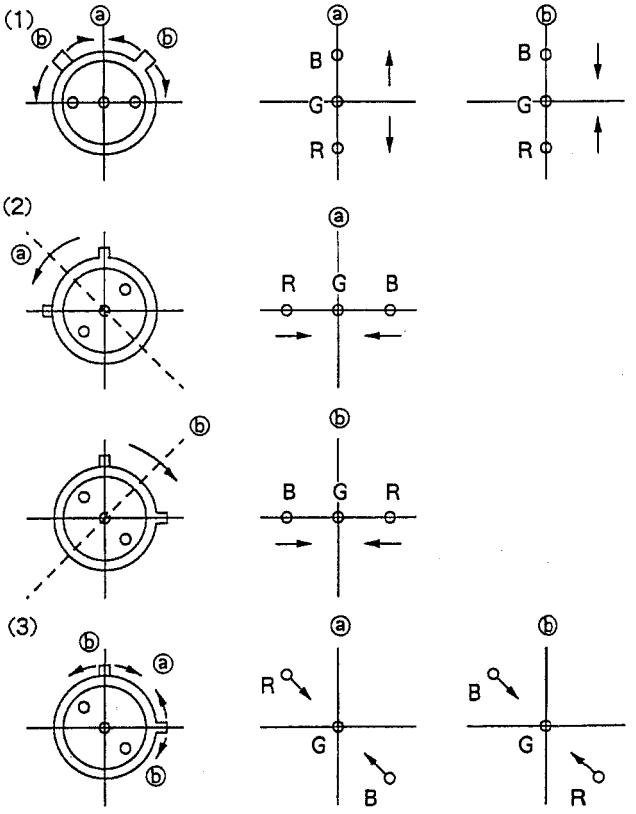
(1) Horizontal and Vertical Static Convergence



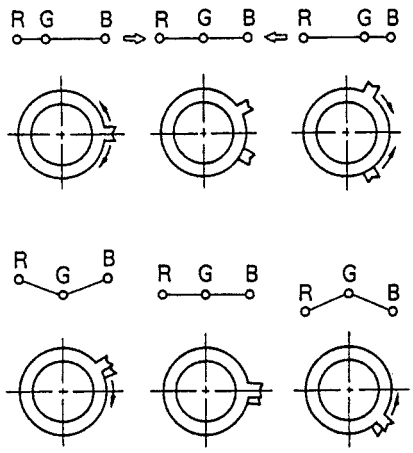
1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below.
   (In this case, H. STAT VR and V. STAT magnet effect each other.)
   - Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

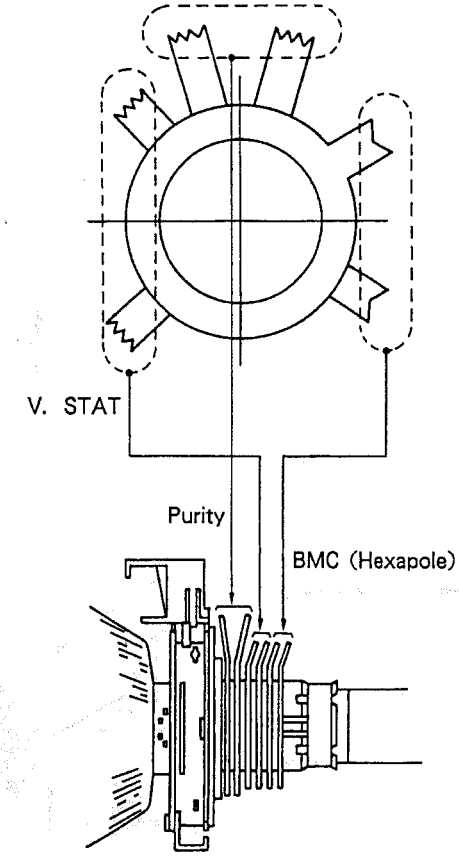


4. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.



● Operation of BMC (Hexapole) Magnet





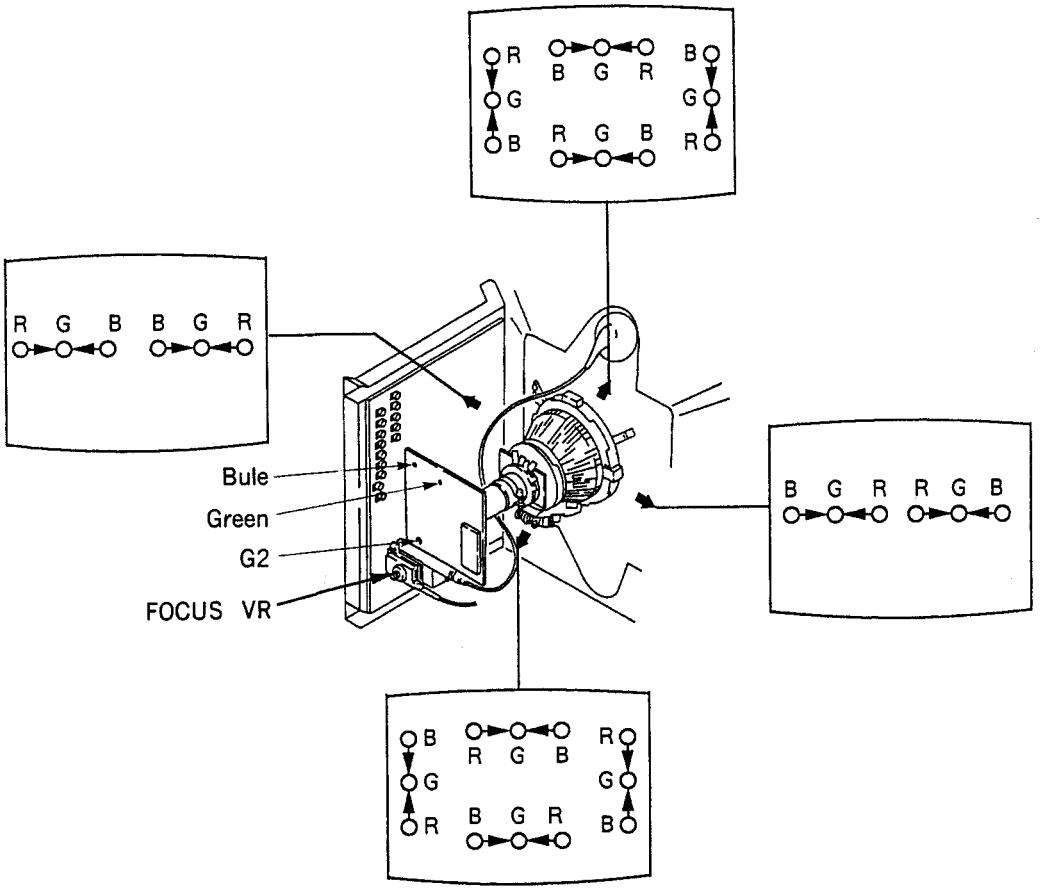
● The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) Dynamic Convergence Adjustment

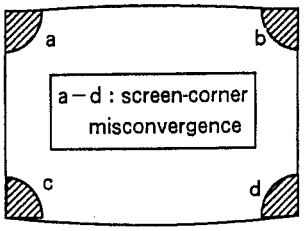
Preparation :

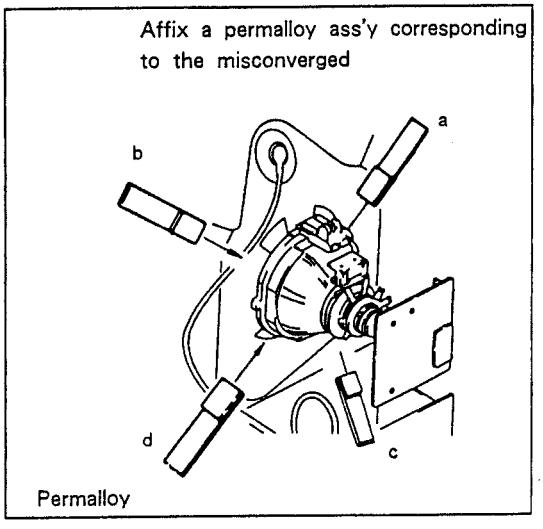
- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..

1. Slightly 'loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Converence





3–3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

3-4. WHITE BALANCE

〔Screen (G2) Setting〕

1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

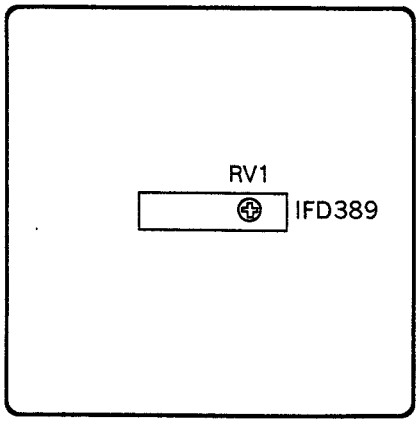
〔White Balance Adjustment〕

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

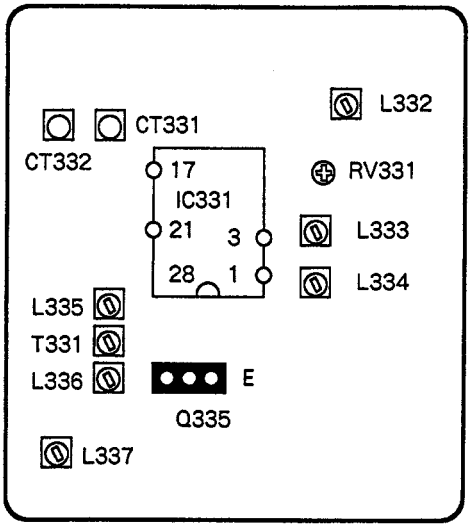


(Conponent side)

TUNER AGC Adjustment

1. Tune in an off-air signal.
2. Adjust AGC VR on IFD389 so that snow-noise and cross-modulation just disappear from the picture.

4-2. B BOARD ADJUSTMENT



(Conponent side)

REF OSC NTSC 3.58MHz (CT331)

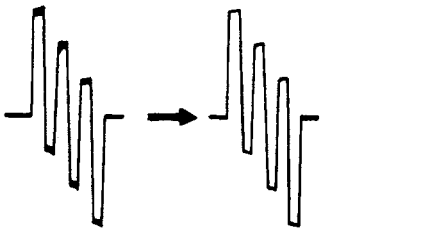
1. Input a NTSC 3.58MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT331 to obtain color synchronization.
4. Remove the jumper wire from IC331.

REF OSC Adjustment NTSC 4.43MHz (CT332)

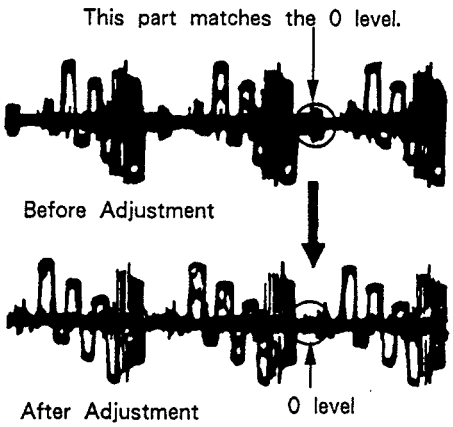
1. Input a NTSC 4.43MHz COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC331 and ground.
3. Adjust CT332 to obtain color synchronization.
4. Remove the jumper wire from IC331.

1H DELAY LINE Adjustment (L332, RV331)

1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ① (R-Y) of IC331 and observe the waveform of the H block on the oscilloscope.
3. Adjust L332 to minimize the double waveform outline.



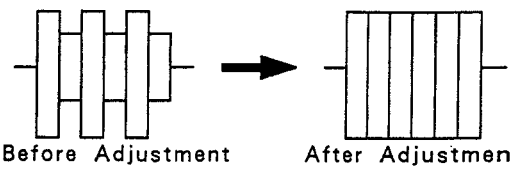
4. Input a TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform part matches the 0 level.



6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

SECAM ID Adjustment (L335)

1. Input a SECAM COLOR BAR pattern.
2. Connect a Digital Multimeter at pin ㉑ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

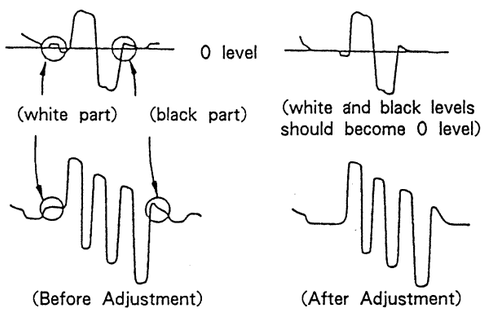


BELL FILTER Adjustment (T331)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q335 emitter.
3. Adjust T331 so that the waveform becomes flat.

SECAM DISCRI Adjustment (L333, L334)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC331.
3. Adjust L333 so that white and black parts of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope to pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.



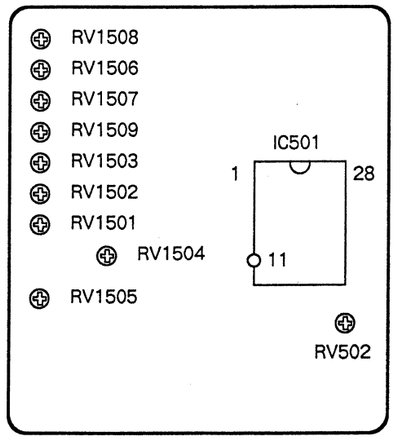
4.25 TRAP Adjustment (L336)

1. Input SECAM COLOR BAR pattern.
2. Adjust L336 so that noise just disappear from the picture.

4.43 TRAP Adjustment (L337)

1. Input PAL COLOR BAR pattern.
2. Adjust L337 so that noise just disappear from the picture.

4-3. D BOARD ADJUSTMENT

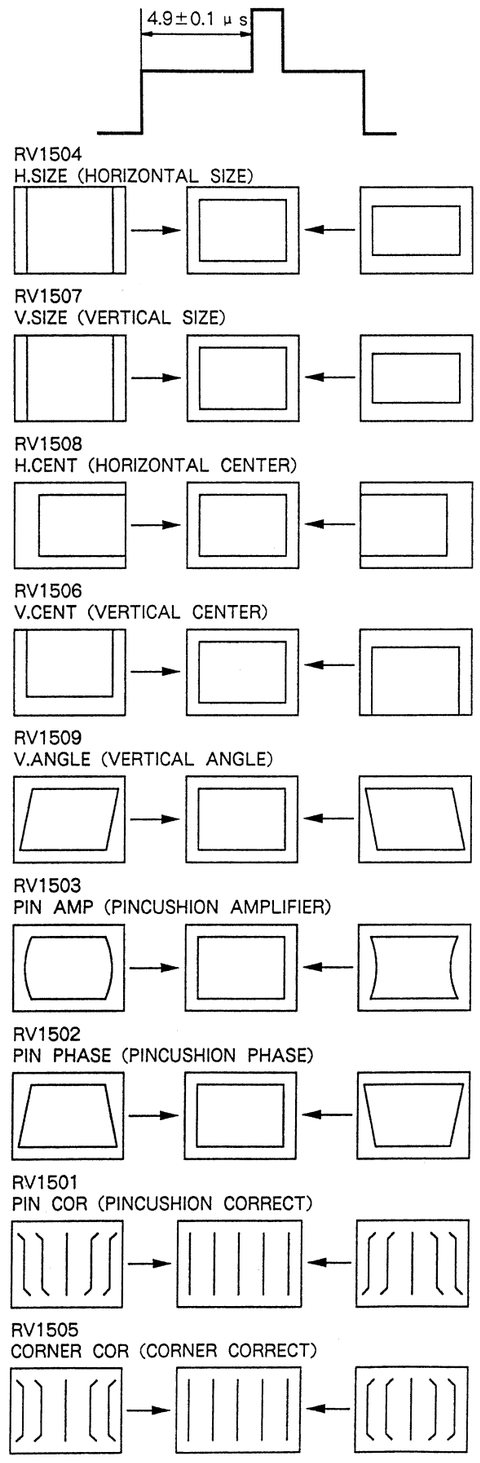


(Conponent side)

H. PHASE Adjustment (RV502)

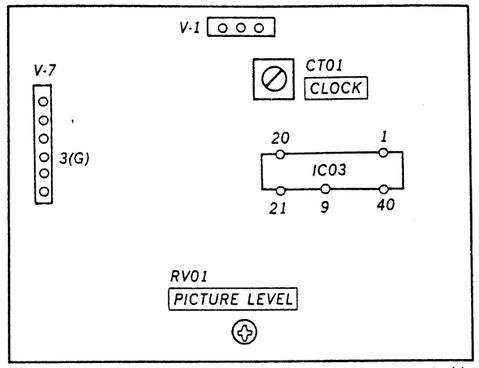
1. Input a PAL COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.

4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to 4.9±0.1 μs.



4-3. V BOARD ADJUSTMENTS

V Board



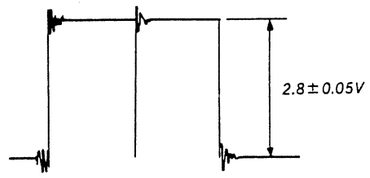
— component side —

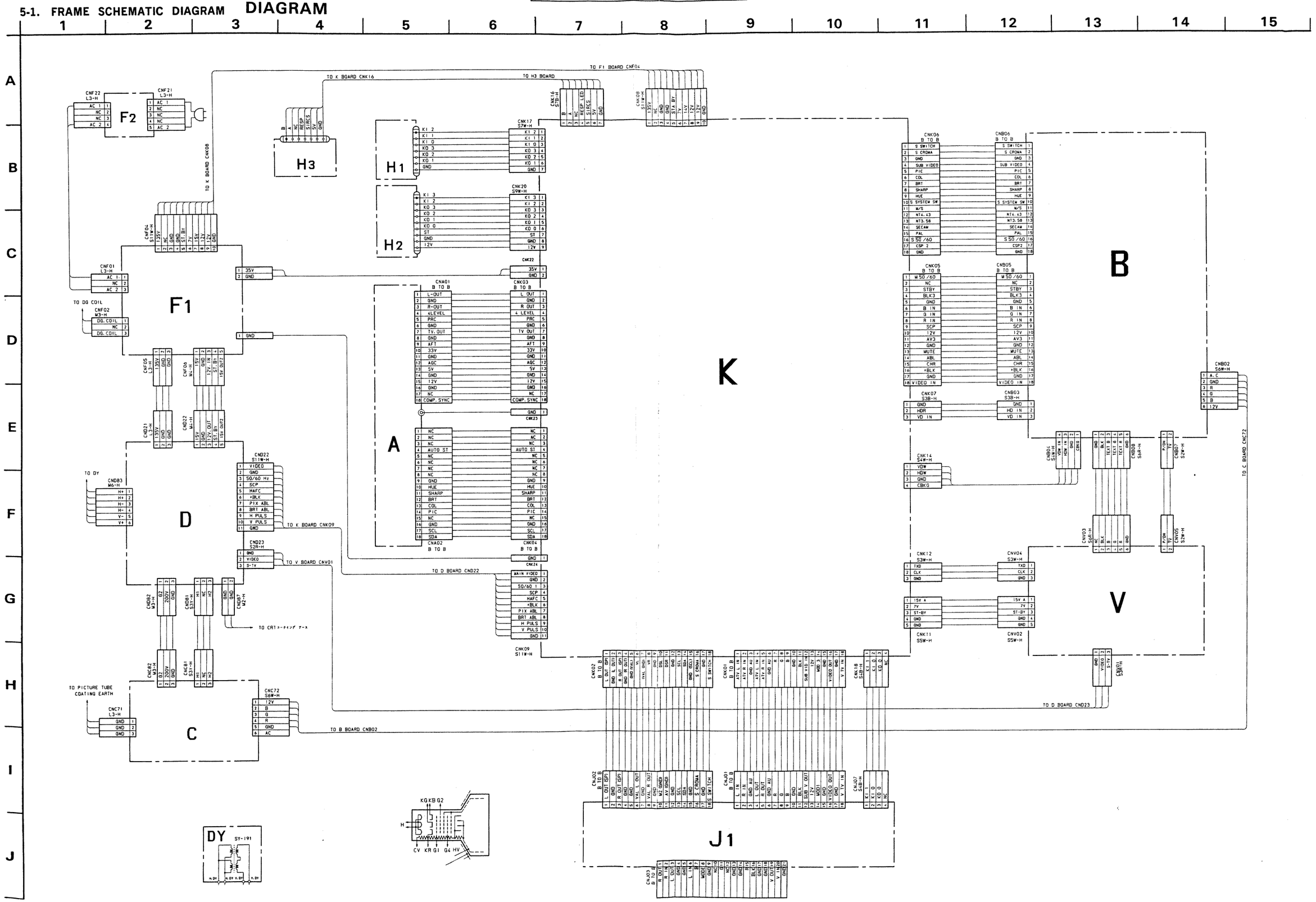
CLOCK Adiustment (CT01)

1. *Disconnect V-1 connector.*
2. *Connect freguenuy counter to pin ⑨ of IC03.*
3. *Adjust CT01 to 6.0MHz ±50Hz.*
4. *connect V-1 connector.*

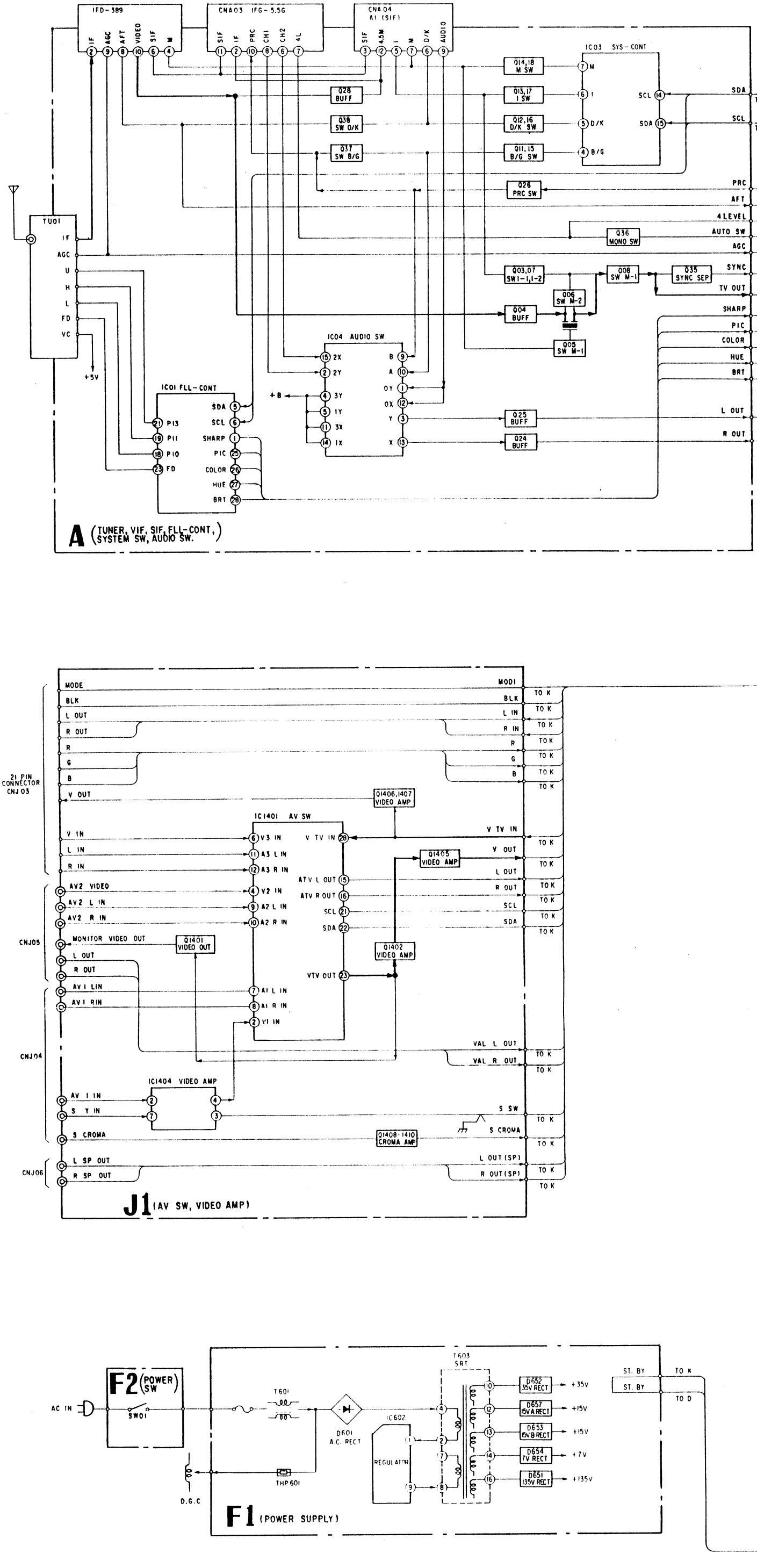
PICTURE LEVEL Adiustment (RV01)

1. *Connect oscilloscope to G output of V-7 connector.*
2. *Adjust RV01 so that G output level (black level to white peak) is 2.8±0.05V.*




TO F1 BOARD CNF04
TO K BOARD CNK16
TO H3 BOARD
CNK16 S3B-H
CNK08 S11W-H
CNF22 L3-H
CNF21 L3-H
F2
H3
H1
H2
TO K BOARD CNK08
CNF04 S11W-H
CNF01 L3-H
F1
TO DG COIL
CNF02 M3-H
CNF05 L3-H
CNF06 M4-H
CNK17 S7W-H
CNK20 S9W-H
CNK22
CNK03 B TO B
CNA01 B TO B
A
CNK23
CNA02 B TO B
CNK04 B TO B
CNK24
CND21 L3-H
CND22 M4-H
CND22 S11W-H
TO DY
CND83 M6-H
D
CND23 S2R-H
TO K BOARD CNK09
TO V BOARD CNV01
TO D BOARD CND22
CND82 M3-H
CND81 S3Y-H
CND87 M2-H
TO CRT ﾈｯｸｱｯﾌﾟ ﾌﾟﾘﾝﾄ ﾌﾟﾘﾝﾄ
CNK09 S11W-H
CNC72 S6W-H
C
TO PICTURE TUBE COATING EARTH
CNC71 L3-H
TO B BOARD CNB02
CNK06 B TO B
CNB06 B TO B
CNK05 B TO B
CNB05 B TO B
CNK07 S3B-H
CNB03 S3B-H
B
CNB02 S6W-H
CNB04 S4R-H
CNB08 S4R-H
CNK14 S4W-H
CNB07 S2W-H
CNV03 S4R-H
CNV05 S2W-H
TO C BOARD CNC72
CNK12 S3W-H
CNV04 S3W-H
CNK11 S5W-H
CNV02 S5W-H
V
CNV01 S5W-H
TO D BOARD CND23
K
CNK02 B TO B
CNK01 B TO B
CNK18 S4B-H
CNJ02 B TO B
CNJ01 B TO B
CNJ07 S4B-H
J1
CNJ03 B TO B
DY SY-191
KG KB G2
CV KR G1 G4 HV

5-2. BLOCK DIAGRAM



B (CHROMA DECODER, R·G·B INTERFACE, AV SW, CHROMA SW)

SYSTEM SW
S CROMA
M 50/60
VIDEO IN
IC1311 AV SW-1
IC1313 AV SW-3
IC1312 AV SW-2
Q308 COL SYS SW
Q341 Y BUFF
Q336 Y-C SW
IC1310 COMB DECODER
Q302 VIDEO BUFF
Q1360 VCC FILTER
IC1306 AV SW-4
Q342 Y OUT
Q343, 344 Y DL
Q346 Y BUFF
+12V
Q349 INVERTOR
Q347, 348 OP AMP
Q350 SEP OUT
IC1302 DYNAMIC PIC
Q334 PAL C OUT
Q331 CHROMA BUFF
T331 BELL
Q335 SECAM C OUT
Q333 4.43 OSC
Q332 3.58 OSC
X332
X331
IC331 CHROMA DECODER
DL 331
NT 4.43
NT 3.58
SECAM
PAL
HUE
Q1354 NT 4.43 SW
Q1353 NT 3.58 SW
Q1352 SECAM SW
Q1351 PAL SW
Q106 HUE CONT
R IN
G IN
B IN
BRT
COL
BLK
MUTE
PIC
CHR
+BLK
ST BY
SCP IN
AV 3
SHARP
Q381 MUTE SW
Q316 MUTE SW
Q313 CHR BLK
Q311 CHR DRV
Q312 R.G.B BKK
Q303 ST/BY SW
Q301 CURRENT SW
Q304, 305 AV SW
IC301
RV310
R G B INTERFACE
Q351 Y OUT
Q1361 Y BUFF
Q1363 AV SW-3
IC1301 SHARPNESS CTL
R. OUT
G OUT
B. OUT
AC
TEXT R
TEXT B
BLK
TEXT G
VM OUT
TV
L OUT
R OUT
TO A
TO B
TO C
TO D
TO J
TO K
TO V

K (SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER.)

S SW
TV IN
TV OUT
MOD 3
IC003
SDA
SCL
TX CLK
TX DAT
ST-BY
PRC
MUTE
ST LED
RES LED
M/S
AGC
UK-ST2
UK-ST1
UK-ST0
NT 4.43
NT 3.58
SECAM
PAL
CHR
SIRCS
PIC
COL
BRT
ATV L IN
ATV R IN
4LEVEL
LED 2
LED 1
SHARP
HUE
BLK
IC001 TUN CTL
Q002 PULS SW
Q13 AV SW
Q14 S SW
Q009 PULS AMP
Q001 RESET
Q003 VIDEO OUT
Q004, 005 SYNC BUFF
+12V
Q006 +5V REG
+5V
Q205 SURROUND SW-1
Q206 SURROUND SW-2
IC201 AUDIO CTL
Q202 MUTE-6
Q204 BUFF
Q201 MUTE-5
Q203 BUFF
SURROUND PROCESSER
IC202(1/4)
IC202(2/4)
IC202(3/4)
IC202(4/4)
Q220 MUTE-2
Q208 MUTE-1
Q209 MUTE-4
Q207 MUTE-3
IC203 L AUDIO OUT
IC204 R AUDIO OUT
L(SP) OUT
R(SP) OUT
SYSTEM SW
AV 3
K00~03
K10~13
AFT
SYNC
50/60-1
M50/60
50/60
BLK
+BLK
V PULS
MAIN VIDEO
VIDEO OUT
VIDEO IN
H AFC
H PULS
B OUT
G OUT
R OUT
B IN
G IN
R IN
VL
SCP
ST-BY
S CROMA
VR
TO FI

H3 (REMOCON RECIEVER)

IC1
D4 [B]
D3 [A]
D1 [STANDBY]
5V
STANDBY
A
B
SIRC

B (CHROMA DECODER, R·G·B INTERFACE, AV SW, CHROMA SW)

Q342 Y OUT
Q343, 344 Y DL
Q346 Y BUFF
+12V
Q349 INVERTOR
Q347,348 OP AMP
Q350 SEP OUT
IC1302 DYNAMIC PIC
IC 301
R-Y IN
B-Y IN
SCP
R1 IN
G1 IN
B1 IN
COLOR
BRT
BLK 1
PIC
BLK 2
G2 IN
R S/H
G S/H
B S/H
RV310
R G B INTERFACE
R OUT
G OUT
B OUT
AC
R2 IN
B2 IN
Y IN
Q351 Y OUT
R. OUT
G. OUT
B. OUT
TO C
AC
TEXT R
TEXT B
TEXT G
TO V
BLK
IC1301
Q1361 Y BUFF
Q1363 AV SW-3
SHARPNESS CTL
VM OUT
TV
Q301,305 AV SW

C (R·G·B OUT)

TO B
A/C
Q704,707,710 R.G.B A/C
R IN
G IN
B IN
Q702,705,708 R.G.B AMP
Q703,706,709 R.G.B OUT
RV703 G DRIVE
RV704 R. DRIVE
R G B OUT
TO D
V901 PICTURE TUBE

IC02 VIDEO PROCESSOR
X01 6MHz
CT01
VIDEO
VIDEO IN
OSC IN
OSC OUT
SYNC IN
Q04 BUFFER
SYNC
CLOCK
X02 13.875MHz
+5V
D04
Q06 CLOCK SW
X03 4MHz
IC01 MICRO CONTROL
TV
TV CLOCK
CLOCK OSC
TXD
INT/TD
CLK
T1
SCL
SDA(SDA)
IC03 EURO-CCT
TCS
SCS
VCS
IN
F6
TTD
TTC
OUT
IC04 8k bit Static RAM
A0
A12
D0
D7
OE
WE
+14V
Q02 +12V REG
+12V
STAND BY
Q03 SWITCHING
+7V
Q01 +5V REG
+5V
Q11 R AMP
Q10 G AMP
Q09 B AMP
Q07 BLK AMP
R
G
B
BLK
RV01 PIC LEVEL
Q05 BUFFER

V (TELETEX)

IC001 TUN CTL
MOD 3
OSC 1
OSC 2
CLK
DAT
TXCLK
TXDAT
STBY
PRC
BLK
UK-STLED
RESP
M/S
AGC
UK-ST2
UK-ST1
UK-ST0
NTSC4.43
NTSC3.58
SECAM
PAL
G
SIRCS
Q13 AV SW
Q14 S SW
AV1
AV3
K00~03
K10~13
AFT
H SYNC
50/60-1
50/60-2
VPULSE
VPIW
RESET
HAFC
HPIW
SUR
Q009 PULS AMP
Q0004, 005 SYNC BUFF
Q0001 RESET
Q003 VIDEO OUT
+12V
Q006 +5V REG
+5V
Q205 SURROUND SW-1
S SW
SYSTEM SW
A V 3
K00~03
K10~13
AFT
SYNC
50/60-1
M50/60
50/60
BLK
+BLK
V PULS
MAIN VIDEO
VIDEO OUT
VIDEO IN
H AFC
H PULS
B OUT
G OUT
R OUT
B IN
G IN
R IN
VL
TO A
TO B
TO J
TO FI
IC201 AUDIO CTL
SCL
SDA
AFT IN
L IN
AF 2 IN
R IN
4 LEVEL
LED 2
LED 1
L OUT
L BASS
BASS
Q OUT
Q IN
R BASS
R OUT
Q202 MUTE-6
Q204 BUFF
SURROUND PROCESSER
IC202(1/4)
IC202(2/4)
IC202(3/4)
IC202(4/4)
Q206 SURROUND SW-2
Q201 MUTE-5
Q203 BUFF
IC203 L AUDIO OUT
IC204 R AUDIO OUT
Q220 MUTE-2
Q208 MUTE-1
Q209 MUTE-4
Q207 MUTE-3
L(SP) OUT
R(SP) OUT
SCP
ST-BY
S CROMA
VIDEO IN
VIDEO OUT
VR

D (JUNGLE, 50/60SW H OUT, V OUT, COMPARATOR, PIN OUT)

MAIN VIDEO
Q503 VIDEO BUFF
BRT ABL
Q1609 BRT. ABL OUT
PIC ABL
Q1613 ABL F.B
Q1608 PIC ABL OUT
Q1610 ABL DRV
Q502 V ZOOM
H. AFC IN
Q515 AFC SW
SCP OUT
50/60 OUT
Q501 50/60 SW
RV502 H. PHASE
+BLK
Q507 V. ZOOMING
RV1506 V. CENT
Q505, 506 V CENT
H. PULSE
V. PULSE
RV1504 H SIZE
IC501 JUNGLE
V. RAMP GEN
VCR
SCP OUT
MUTING 50/60
H.D
FBP IN
HD OUT
V-BLK OUT
VIDEO IN
SAFETY V. BLK IN
VD OUT
VCO OUT
VCO IN
Q591 VIDEO AMP-2
Q598 VIDEO AMP-1
IC502 V. OU
REF
IN
OUT
RV1509
ANG
IC1501 PIN OUT
Q1551, 1552 PIN DRIVE OUT
XIN
IREF
F
VCC
OUT
RV1501 B COR
RV1503 PIN AMP
Q1552 PIN MOD
200V
RV1505 CORNER COR
IC503 +12V REG
ST. BY
ST/BY
+15V IN
+12V OUT
H CENT
D802 +200V RECT
D801 +25V RECT
D850 +15V RECT
Q905 H. DRV
T801 H.OT
Q804 H. OUT
D60 G2 R

TO D

C (R·G·B OUT)

Q704,707,710 R.G.B A/C

Q702,705,708 R.G.B AMP

Q703,706,709 R.G.B OUT

R.G.B OUT

RV703 G DRIVE

RV704 R. DRIVE

V901 PICTURE TUBE

IC02 VIDEO PROCESSOR

X01 6MHz

CT01

VIDEO IN

OSC IN

OSC OUT

IC03 EURO-CCT

IC04 8K bit Static RAM

Q04 BUFFER

SYNC

CLOCK

X02 13.875MHz

+5V

D04

Q06 CLOCK SW

X03 4MHz

IC01 MICRO CONTROL

TV CLOCK

CLOCK OSC

INT/TD

T1

SCL

SDA

+14V

Q02 +12V REG

+12V

Q03 SWITCHING

+7V

Q01 +5V REG

+5V

R

G

B

BLK

Q11 R AMP

Q10 G AMP

Q09 B AMP

Q07 BLK AMP

TO B

RV01 PIC LEVEL

Q05 BUFFER

V (TELETEX)

Q503 VIDEO BUFF

Q1613 ABL F.B

Q1609 BRT. ABL OUT

Q1608 PIC ABL OUT

Q1610 ABL DRV

Q502 V ZOOM

IC 501 JUNGLE

V. RAMP GEN

VCR

SCP OUT

MUTING 50/60

Q515 AFC SW

Q501 50/60 SW

RV502 [H. PHASE]

Q507 V. ZOOMING

RV1506 [V. CENT]

Q505, 506 V. CENT

RV1504 [H. SIZE]

IC1501 PIN OUT

Q1551, 1552 PIN DRIVE OUT

RV1501 [P. COR]

RV1503 [PIN AMP]

RV1505 [CORNER COR]

IC503 +12V REG

ST/BY

+15V IN

+12V OUT

Q531 VIDEO AMP 2

Q598 VIDEO AMP 1

Q801 +B REG

Q805 +B REG

IC 502 V. OU

RV1507 V. SIZE

RV1509 [V. ANG]

V+

H+

H−

V−

TO V

+B

S. T.

[H. CENT]

D812 +200V RECT

D801 +25V RECT

D850 +15V RECT

200V

28V

15V

Q805 H. DRV

T801 H. DT

Q804 H. OUT

D603 G2 RECT

G2

H1, H2

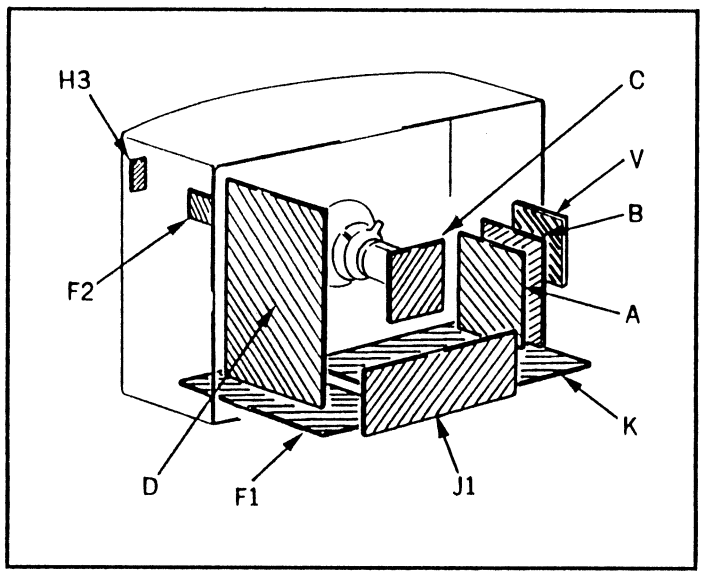
H.V

F.V

TO CRT

D (JUNGLE, 50/60SW H OUT, V OUT, COMPARATOR, PIN OUT)

5-3. CIRCUIT BOARDS LOCATION



Note :

- All capacitors are in μ F unless otherwise noted. pF : μ μ F 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : 1/4W

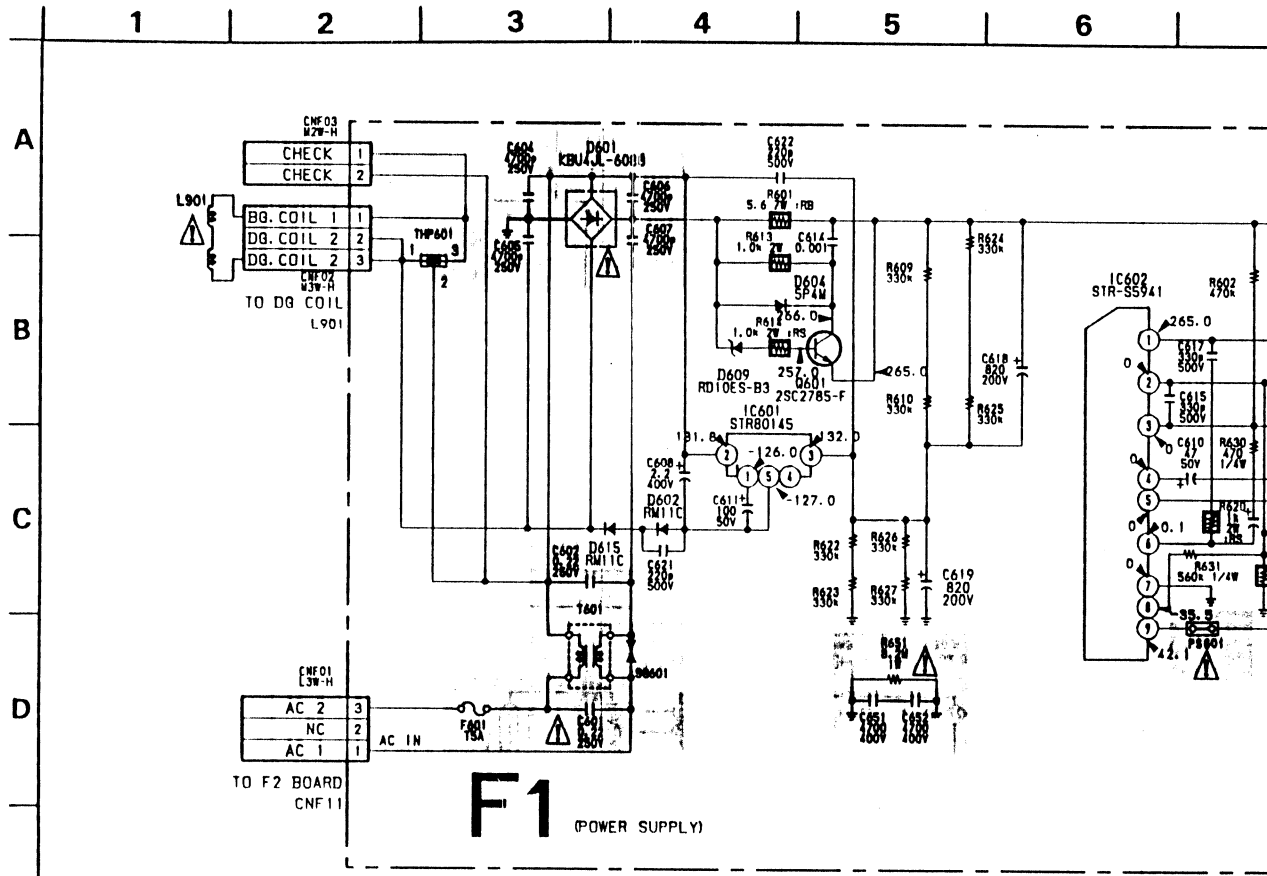
- All resistors are in ohms.
- : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- ▭ : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B+line
- : signal path.

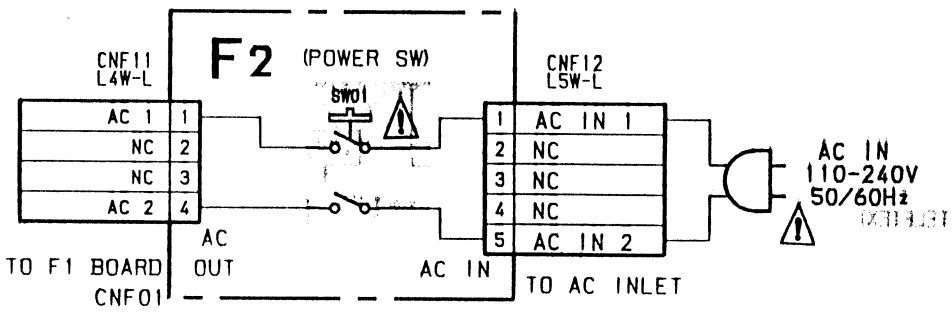
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

5-4. SCHEMATIC DIAGRAM (1)





5 6 7 8 9 10 11 12 13 14 15

IC602 STR-S5941

D652 RU4Z
D657 CTU-12S
D653 CTU-12S
D654 RGP10G
D651 RU-3AM
D607 RH-1C
D605 EU22
D610 EU22

35V
AU. GND
15V. A
15V. B
7V
L. GND
135V
B. GND

CNF08 TO K BOARD
82W-H CNK21
1 35V
2 AU. GND

CNF01 TO K BOARD
811W-H CNK08
1 135V
2 NC
3 GND
4 GND
5 ST. BY
6 7V
7 15V A
8 12V
9 12V
10 GND
11

CNF05 TO D BOARD
L2W-L CND21
1 135V
2 GND
3 GND

CNF06 TO D BOARD
B4W-H CND22
1 15V B
2 GND
3 12V IN
4 ST. BY
5 15V A

AC IN
110-240V
50/60Hz

IC1
BX-1387
RESP
D1 TLR124
D3 TLR124
D4 TLR124

CNH03
S7B-H
1 B
2 A
3 ST
4 RESP
5 SIRCS
6 5V
7 GND
TO K BOARD
CNK16

H3
(RMT-SENSOR
INDICATOR)

● A BOARD WAVEFORM

①	②	③
1.0 Vp-p (H)	1.0Vp-p (H)	5.2 Vp-p (H)

CNA03
1FG-5.5G
PRC
CH1
4L
CH2
12V

CNA04
A01 (SIF)
SIF
AUDIO
MTS
4.5M

SIF
VIDEO
AUDIO
AUDIO L
AUDIO R

Q28 2SA1175-F BUFFER
Q27 DTC144ES SEARCH-AGC
Q02 MC921 B/G-CONT
Q38 2SC2785-F SW-D/K
Q37 DTC144ES SW-B/G
Q26 DTC144ES PRO-SW
Q04 2SC2785-F BUFFER
Q06 2SK105A SW-M-2
Q05 2SC2785-F SW-M-1
Q08 2SA1175-F BUFFER
Q35 2SA1175-F SYNC-SEP
Q24 2SC2785-F BUFFER
Q25 2SC2785-F BUFFER
Q07 DTC144ES SW-1-1
Q03 DTC144ES SW-1-2
Q15 DTA144ES B/G-SW-1
Q11 DTC144ES B/G-SW-2
Q16 DTA144ES D/K-SW-1
Q12 DTC144ES D/K-SW-2
Q17 DTA144ES I-SW-1
Q13 DTC144ES I-SW-2
Q18 DTA144ES M-SW-1
Q14 DTC144ES M-SW-2

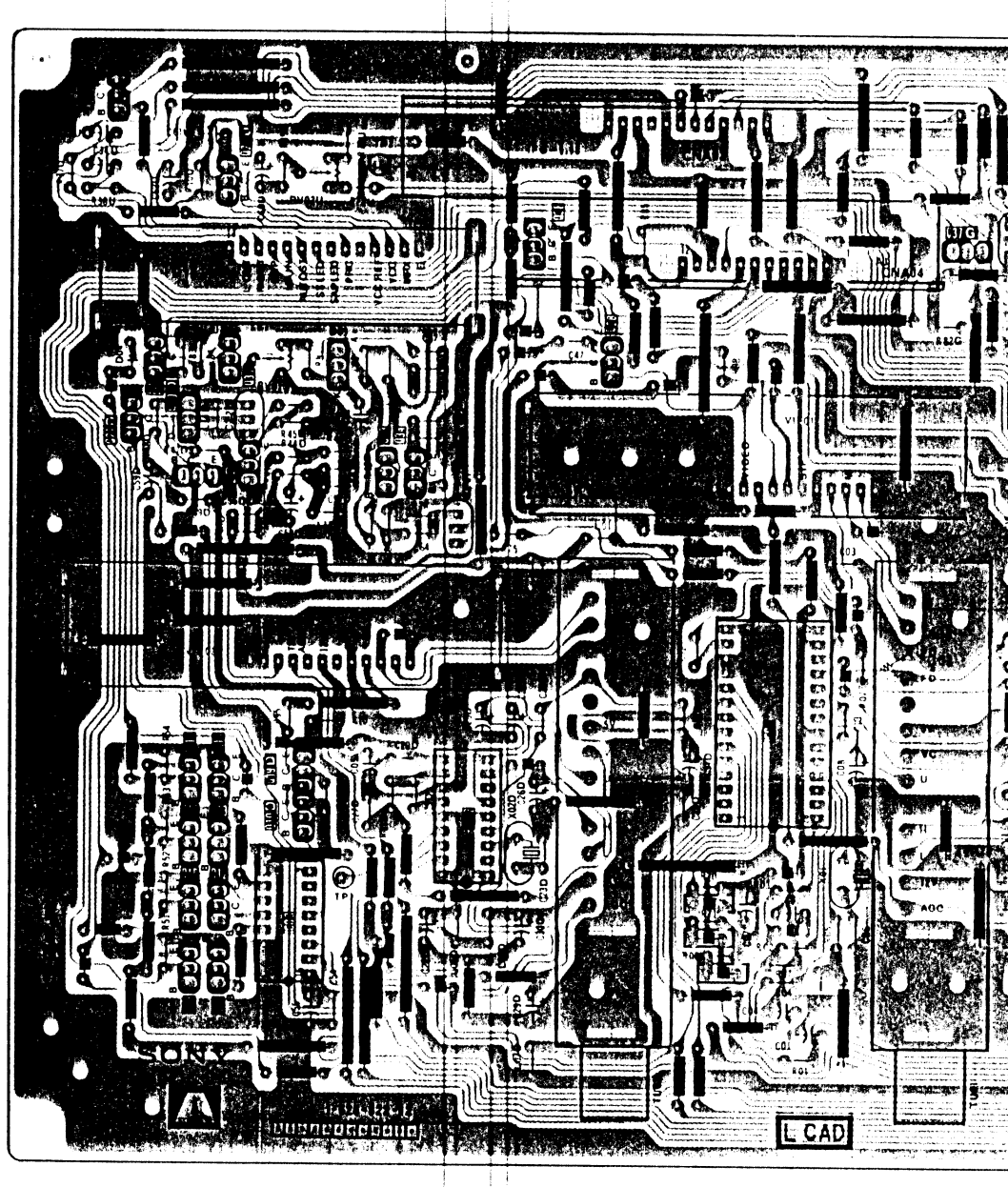
IC03 PCF8574 SYS-CONT
IC04 HD14052BP AUDIO-SW

CNA02
B-TO-B
1 NC
2 NC
3 NC
4 AUTO ST
5 NC
6 NC
7 NC
8 UK2
9 GND
10 HUE
11 SHARP
12 BRT
13 COL
14 PIC
15 SUB TU-OUT
16 GND
17 SCL
18 SDA
TO K BOARD
CNK04

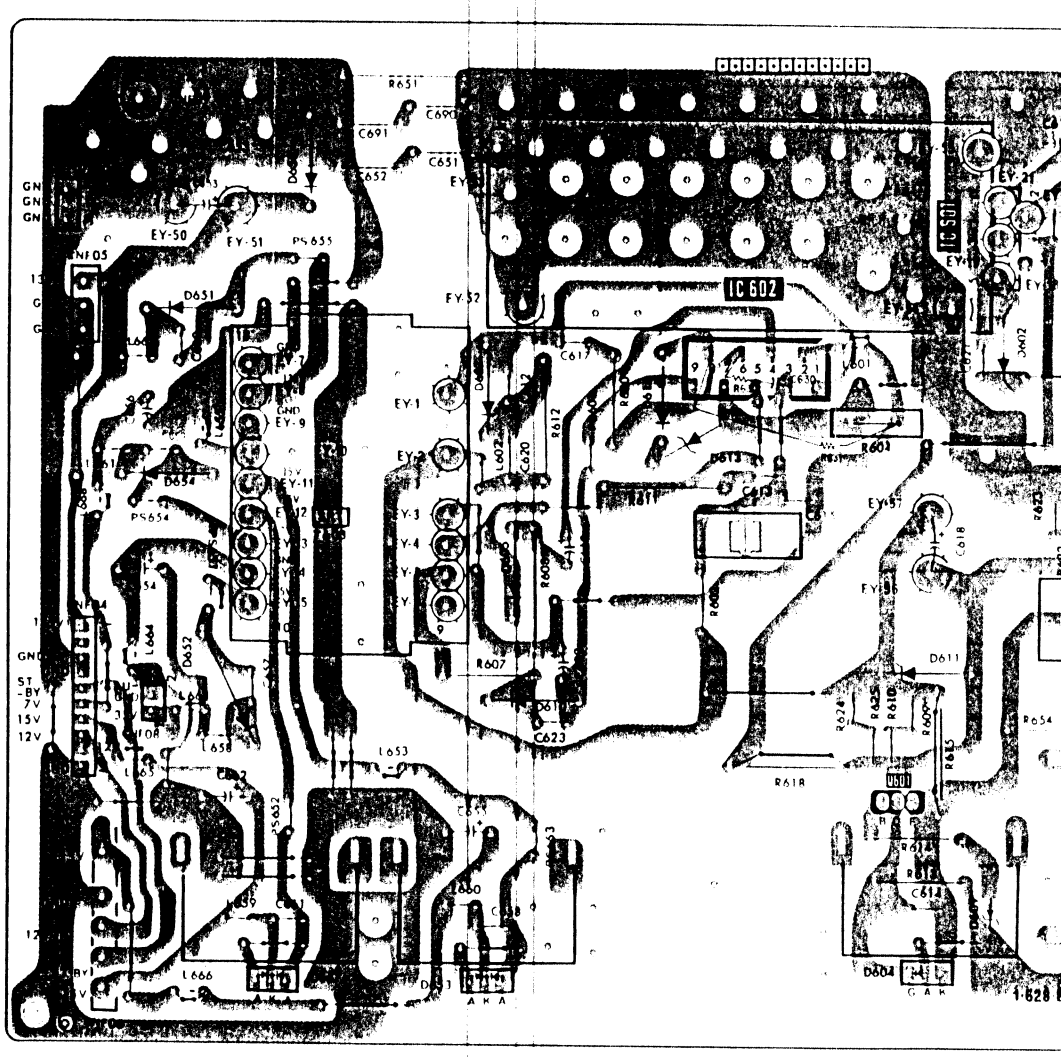
CNA01
B-TO-B
1 L-OUT
2 GND
3 R-OUT
4 4LEVEL
5 PRC
6 GND
7 TV. OUT
8 GND
9 AFT
10 33V
11 GND
12 AGC
13 5V
14 GND
15 12V
16 GND
17 NC
18 SYNC
TO K BOARD
CNK03
1.0VPP

5-5. PRINTED WIRING BOARDS (1) —conductor side—

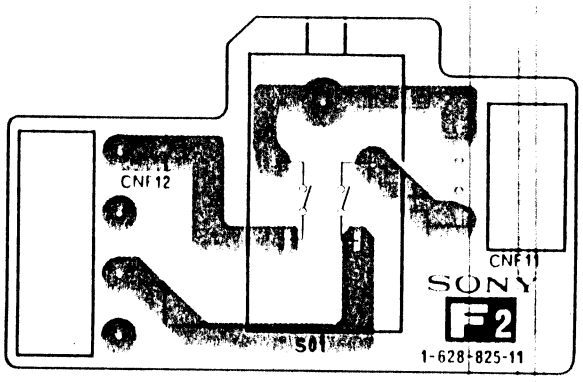
—A Board—



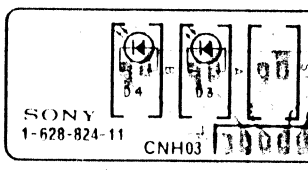
—F1 Board—



—F2 Board—

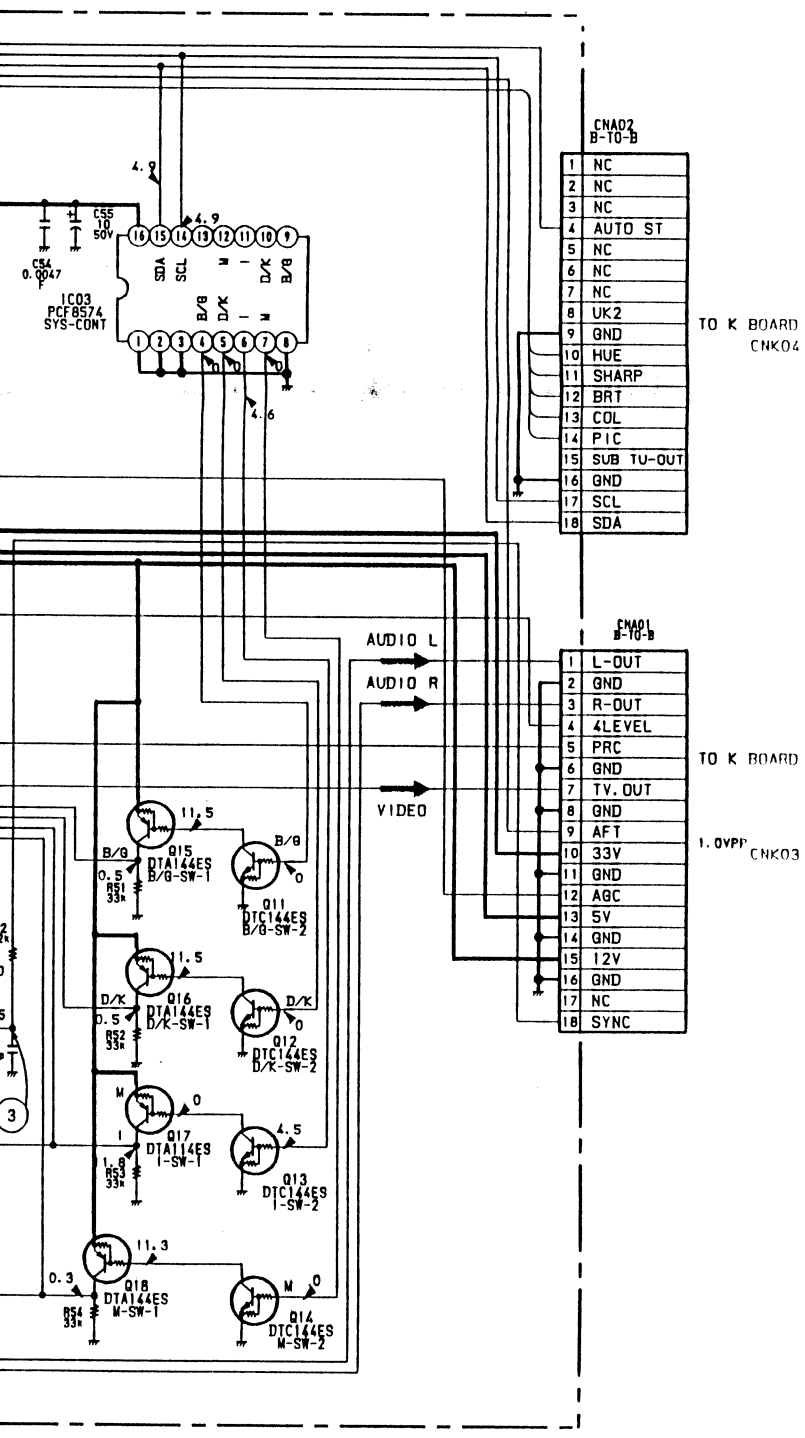


—H3 Board—



● A BOARD WAVEFORM

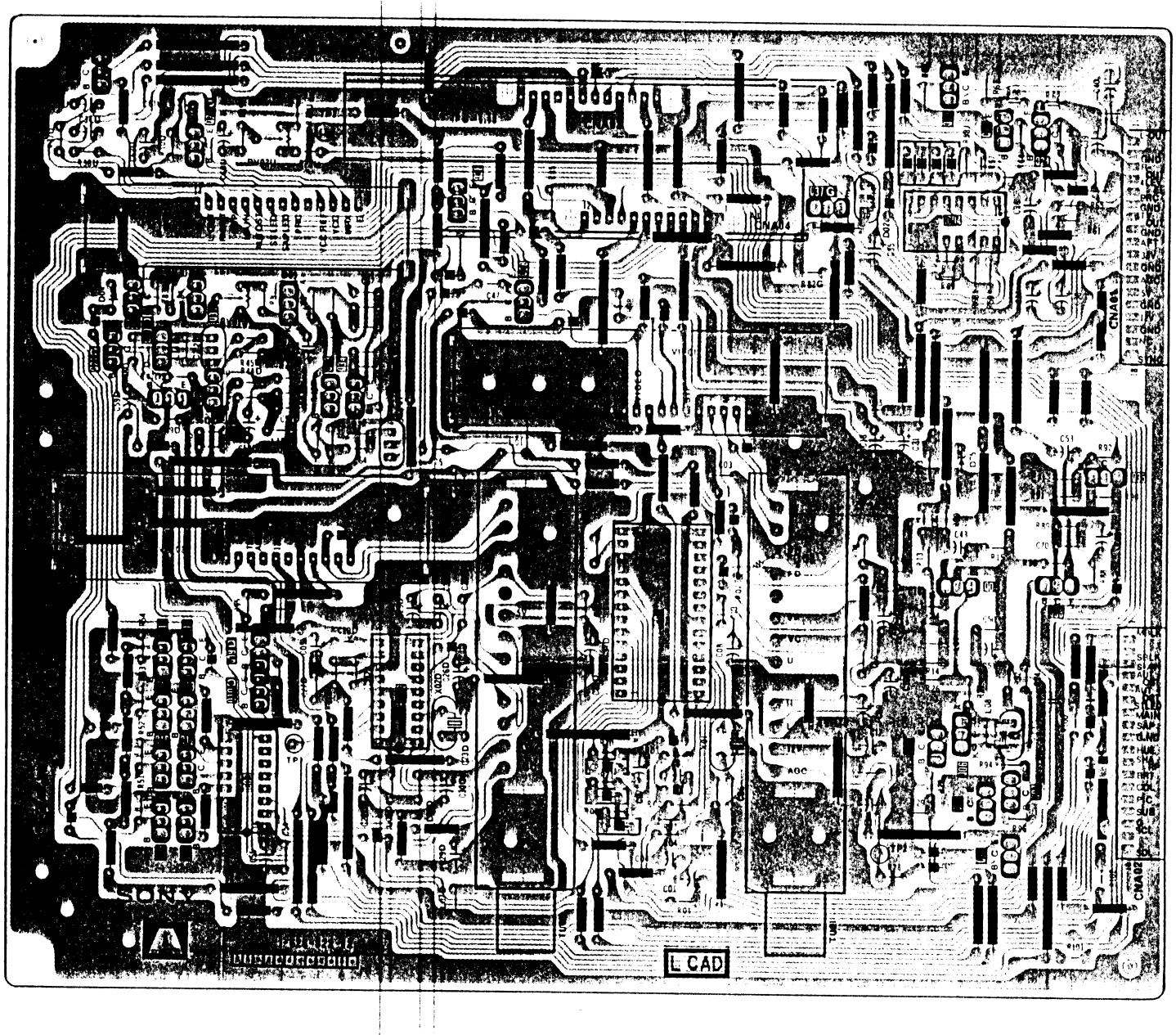
①	②	③
1.0 Vp-p (H)	1.0Vp-p (H)	5.2 Vp-p (H)



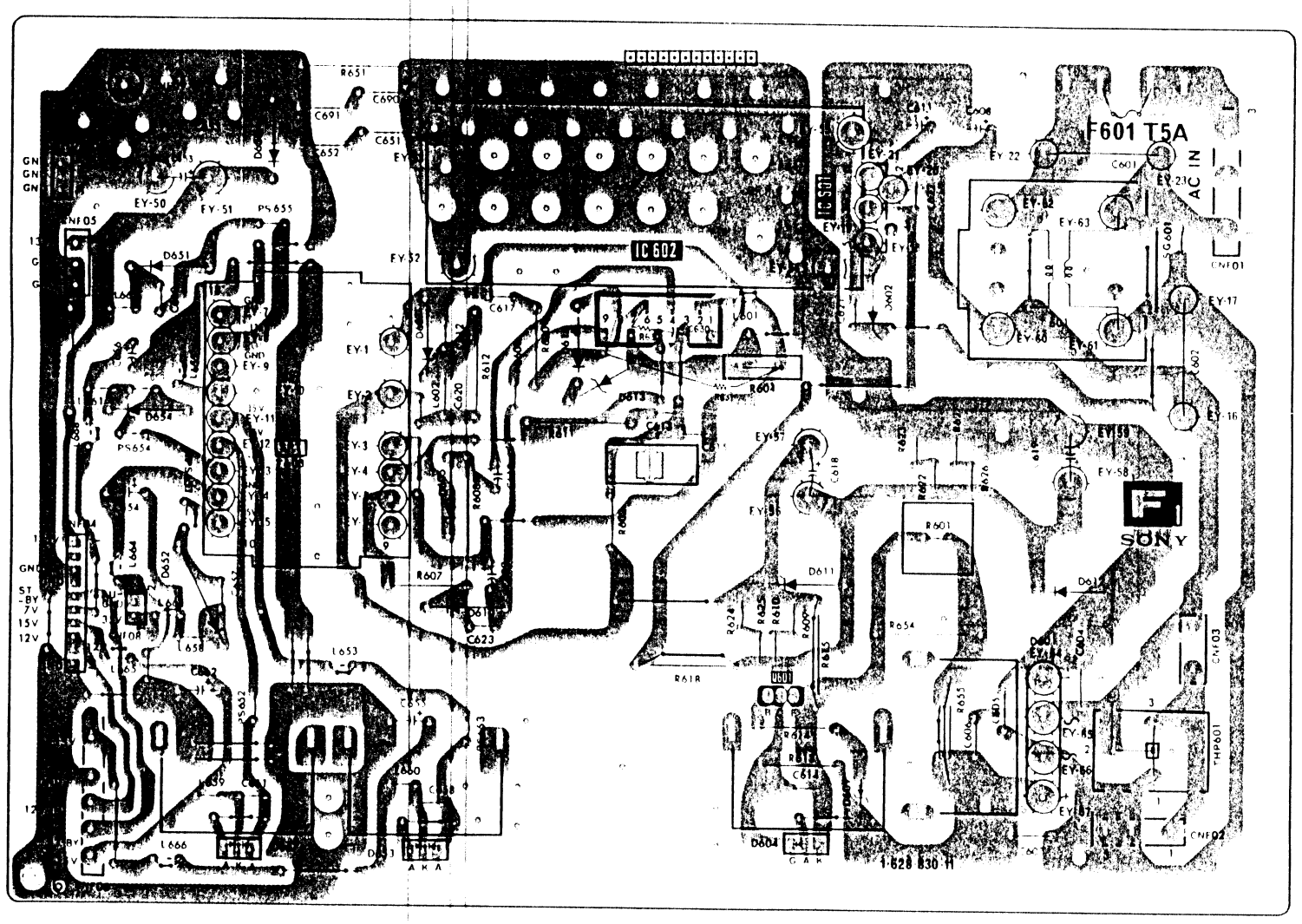
[TUNER, VIF, SIF, FLL, CONT
SYSTEM SW, AUDIO SW] **F1** [POWER SUPPLY] **F2** [POWER SW] **H3** [RMT-SENSOR
INDICATOR]

RINTED WIRING BOARDS (1) —conductor side—

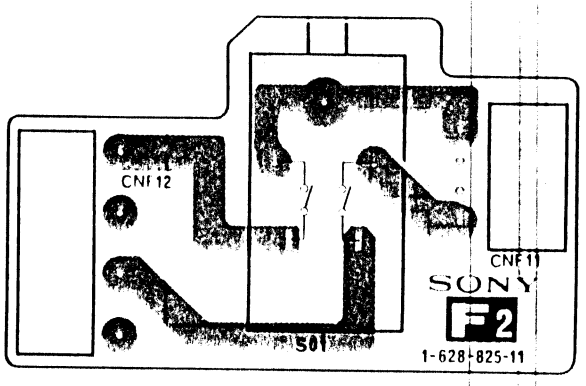
ard—



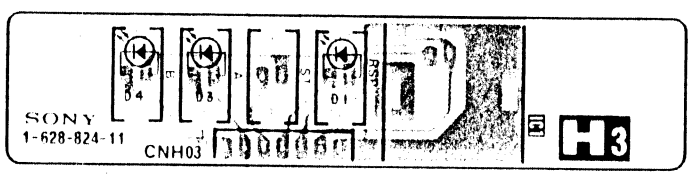
oard—



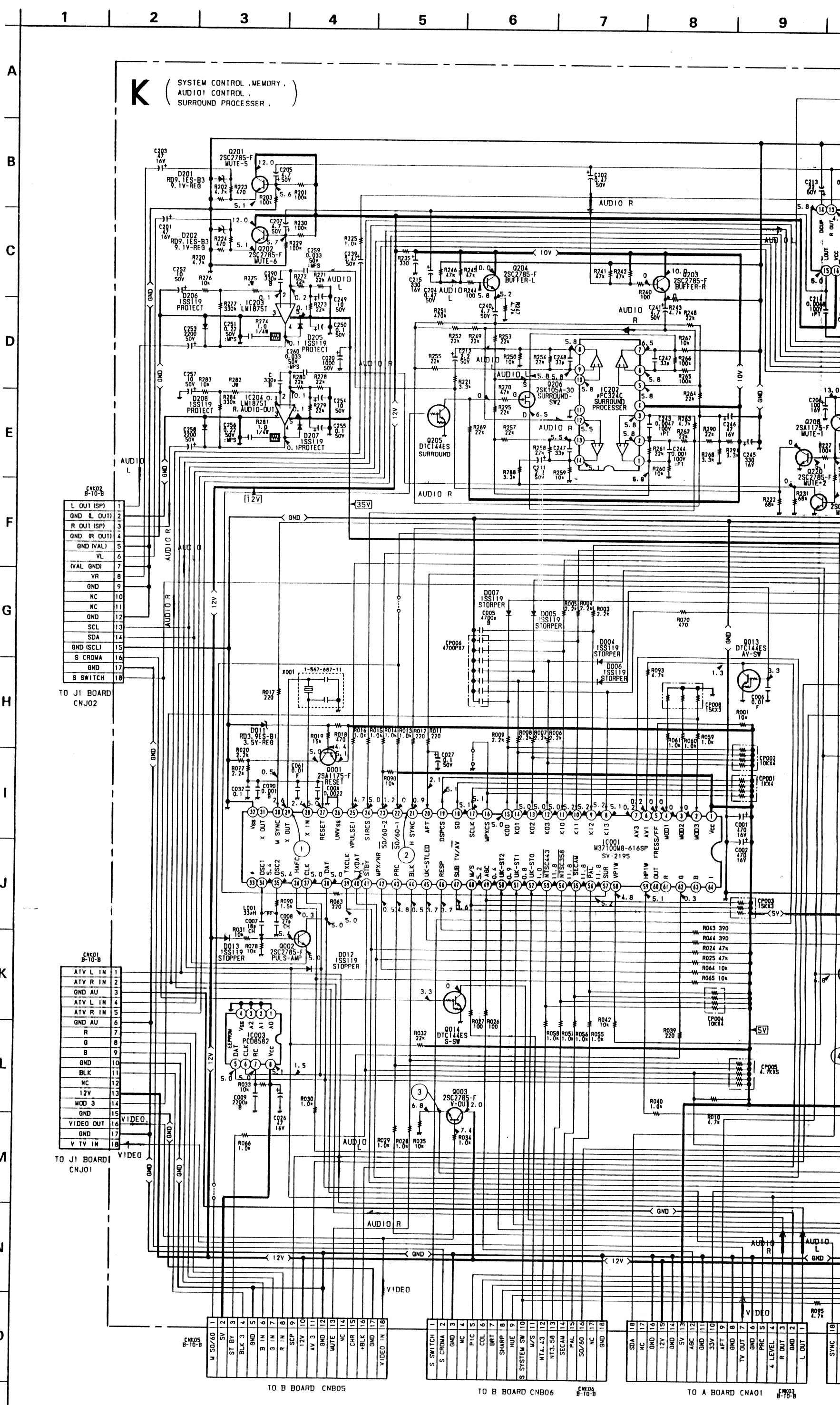
ard—

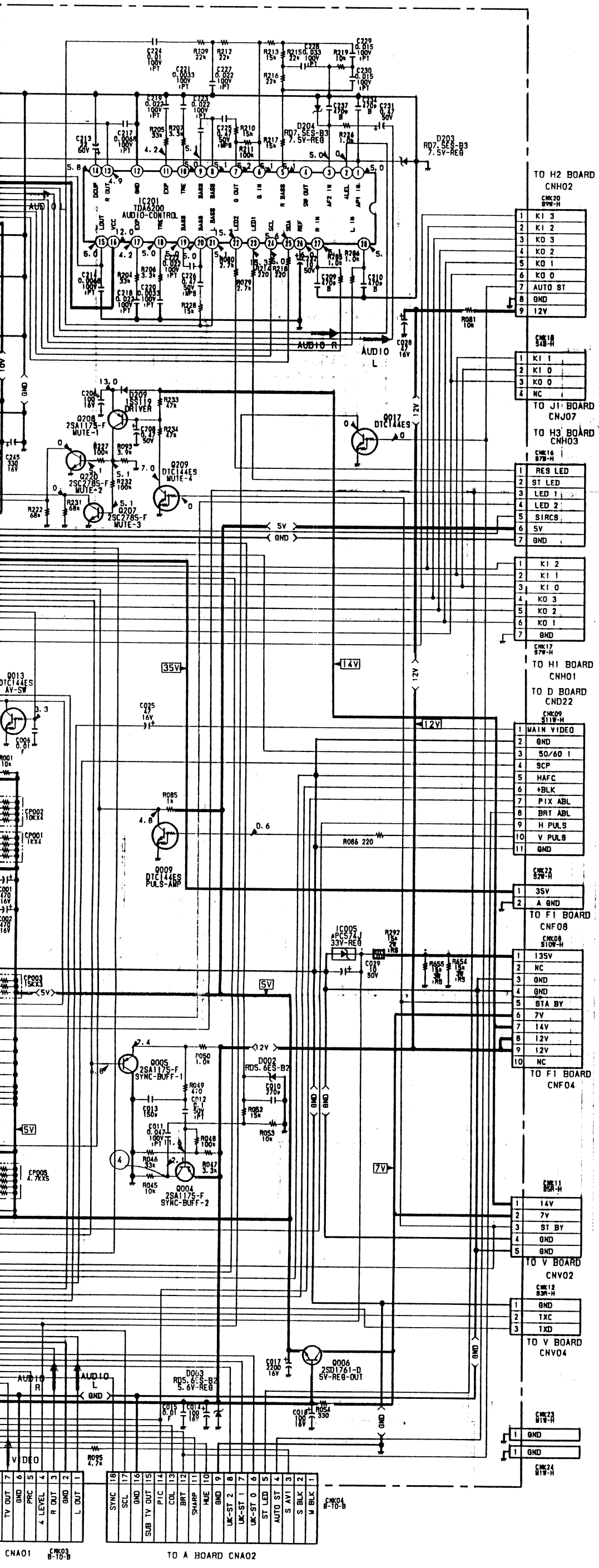


—H3 Board—



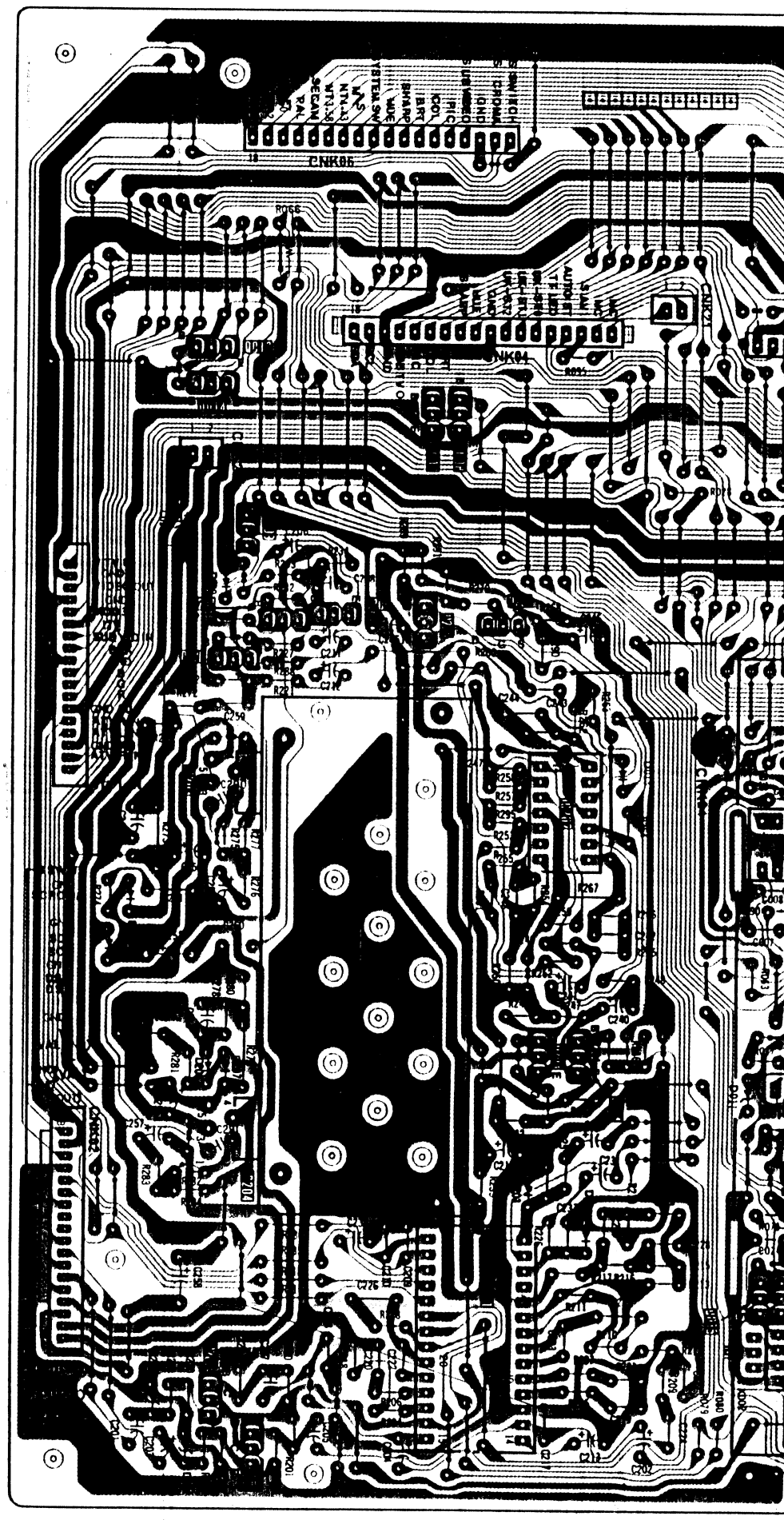
5-6. SCHEMATIC DIAGRAM (2)





K [SYSTEM CONTROL, MEMORY, AUDIO CONTROL, SURROUND PROCESSER]

5-7. PRINTED WIRING BOARDS (2) —conductor side—
—K Board—

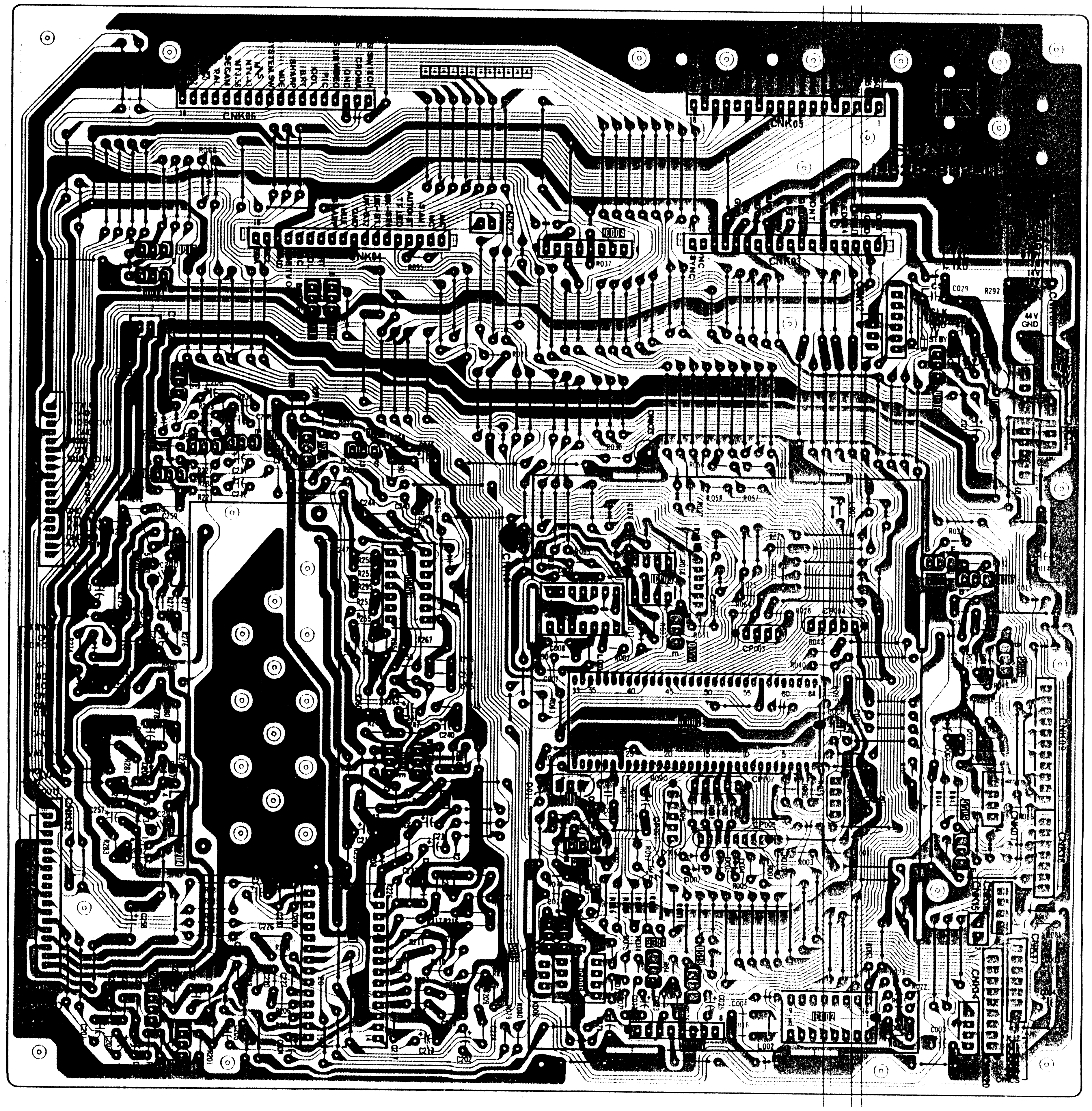


● K BOARD WAVEFORM

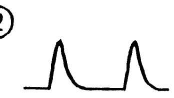
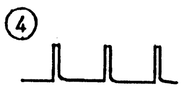
①	②	③	④
4.2 Vp-p (4MHz)	4.8 Vp-p (H)	0.8 Vp-p (H)	11.0 Vp-p (H)

5-7. PRINTED WIRING BOARDS (2) —conductor side—

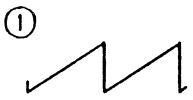
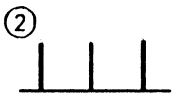
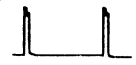
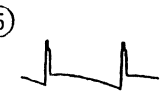
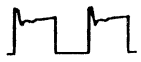
—K Board—



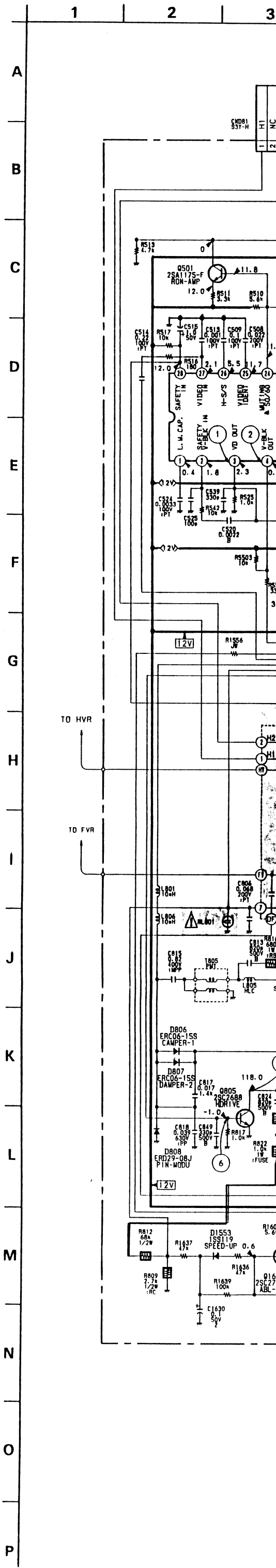
● K BOARD WAVEFORM

①	②	③	④
 4.2 Vp-p (4MHz)	 4.8 Vp-p (H)	 0.8 Vp-p (H)	 11.0 Vp-p (H)

● D BOARD WAVEFORM

①  2.4 Vp-p (V)	②  10 Vp-p (V)	③  4.0 Vp-p (H)	④  28.0 Vp-p (V)	⑤  32.0Vp-p (V)
⑥  3.5 Vp-p (H)	⑦  250.0Vp-p (H)	⑧  13.0Vp-p (H)	⑨  1600.0Vp-p (H)	⑩  0.9 Vp-p (H)
⑪  1.5 Vp-p (H)				

5-8. SCHEMATIC DIAGRAM (3)



TIC DIAGRAM (3)

2 3 4 5 6 7 8 9 10 11 12 13

TO C BOARD C-81

TO K BOARD K-9

CND81 S3Y-H: 1 H1, 2 NC, 3 H2

CND22 S12W-H: 1 MAIN VIDEO, 2 GND, 3 50/60 Hz, 4 SCP, 5 HAFC, 6 +BLK, 7 PIX ABL, 8 BRT ABL, 9 H PULS, 10 V PULS, 11 GND, 12

Q501 2SA1175-F RGN-AMP

Q502 2SA1175-F CORR-SOURCE

Q512 2SC2785-F P-CORRECT

Q515 2SC2785-F RGN-AMP

IC501 TEA2028A

IC502 TDA8170

IC1501 TEA2031A

Q505 2SD774-3 VCENT-1

Q506 2SB734-3 VCENT-2

D501 1SS119

D502 MC931 V.AMP-CORR

D504 GP08D

D505 GP08D

D509 1SS119 V.LIN-CORR

D511 GP08D

D512 GP08D

D513 RD4.7ES-B2 POW-PUP

D1501 RGP10G PROTECT

D1502 1SS119

D1503 1SS119 V.PARA-CCM

D1504 1SS119 COM.H-PULSE

D1505 VC931 H.SIZE-CORR

D1552 RGP10G SWITCHER

NX-1813S

D801 RGP10G COM-DIODE

D850 RGP15J COM-DIODE

D802 RGP10G COM-DIODE

D803 RGP01-17 COM-DIODE

D804 GP08D H-CENT2

D805 GP08D HCENT-1

D806 ERC06-15S CAMPER-1

D807 ERC06-15S DAMPER-2

D808 ERD29-08J PIN-MODU

Q804 2SD1941-07 H-OUT

Q805 2SC2688 HDRIVE

D1553 1SS119 SPEED-UP

Q1608 2SC2785-F PIC-ABL

Q1609 2SC2785-F BRT-ABL

Q1610 2SC2785-F ABL-AMP

Q1613 2SA1175-F FEED-BACK

D1550 PROTECTOR

D809 1SS119 +B-SHUNT

Q806 2SA122 +B-SHUNT1

Q807 2SC2275 +B-SHUNT2

TO F1 BOARD CNF05

TO C BOARD CNC82

TO DY

CNJ06 L SP OUT, R SP OUT

CNJ05 R OUT, L OUT, MONITOR VIDEO OUT

CNJ04 AVI R IN, AVI L IN, AVI IN, S Y IN, S CROMA, AV2 R IN, AV2 L IN, AV2 VIDEO

AUDIO L / AUDIO R

IC1404 LA7016

Q1401 2SA1175-F VIDEO-AMP

Q1408 2SC2785-F CROMA-AMP.1

Q1409 2SC2785-F CROMA-AMP.2

Q1610 2SC2785-F CROMA-AMP.3

D1401 1SS119TD

D1403 RD7.5ES-T1B3

D1406 RD7.5ES-T1B3

D1409 RD9.1ES-B3

D1418 RD7.5ES-B3 PROTECTOR

D1424 1SS119 STOPPER

D1425 1SS119 STOPPER

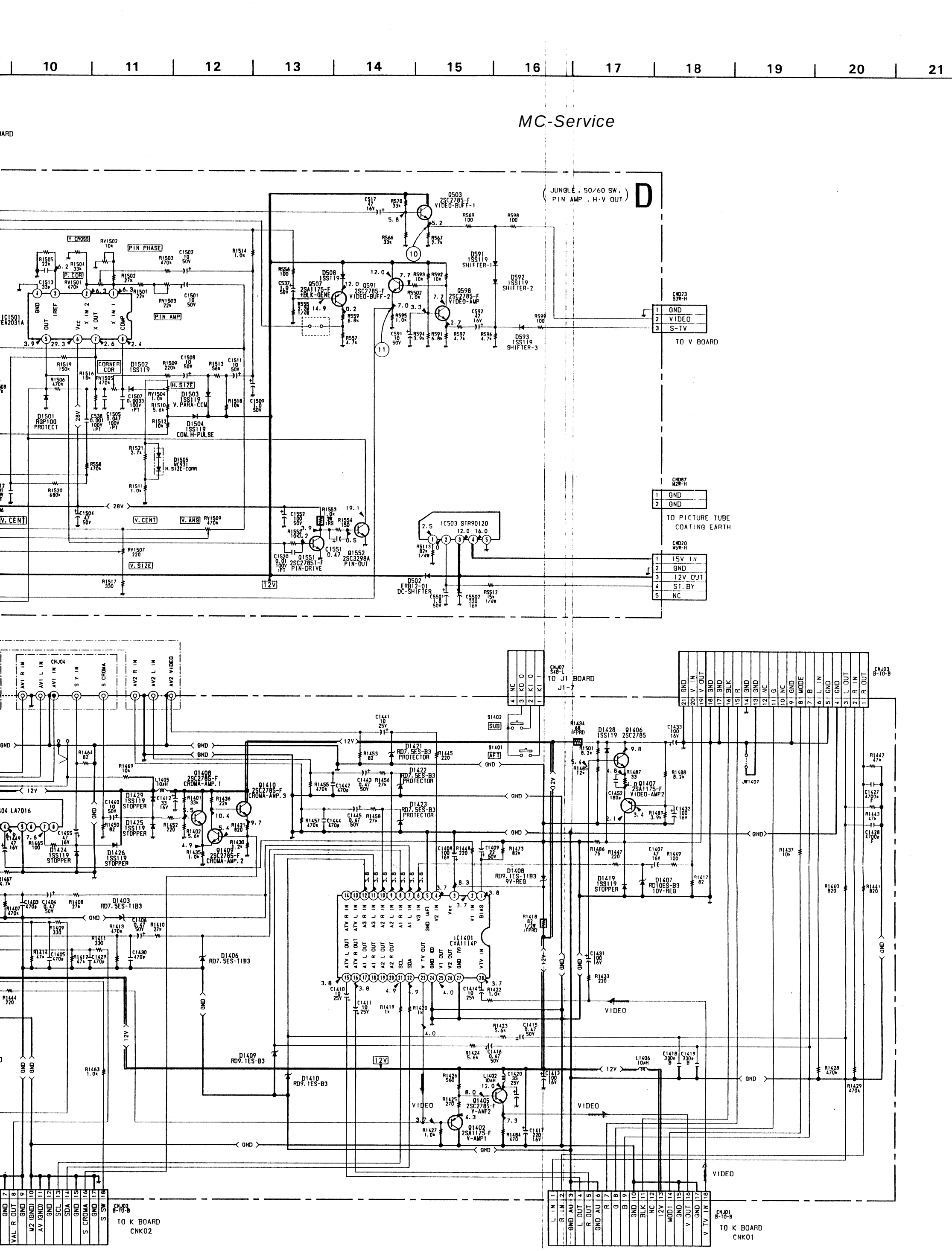
D1426 1SS119 STOPPER

D1427 1SS119 PROTECTOR

D1429 1SS119 STOPPER

J1 (AV SW. VIDEO AMP)

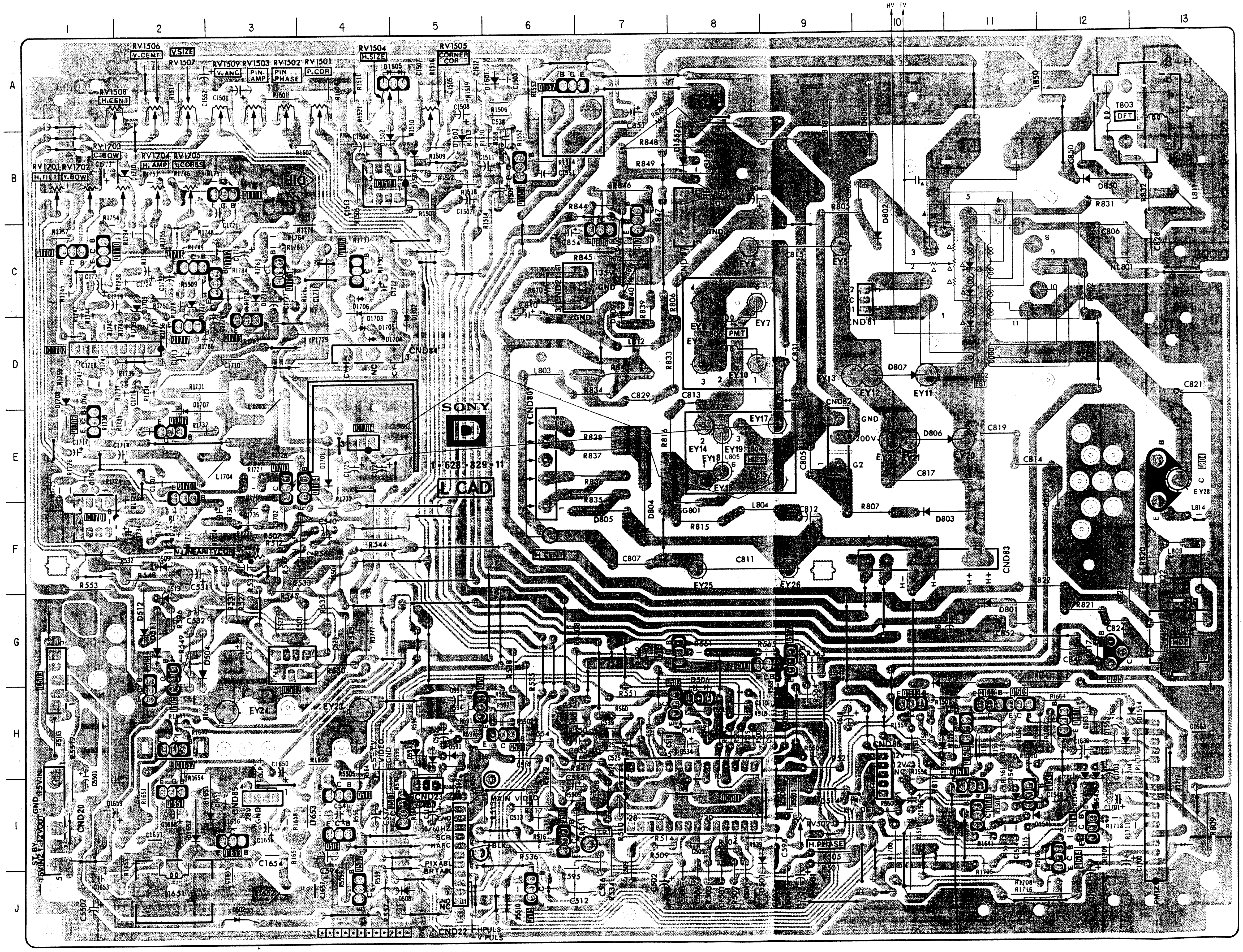
TO K BOARD CNK02


(JUNGLE, 50/60 SW, PIN AMP, H·V OUT)
D
Q503 2SC2785-F VIDEO-BUFF-1
D591 1SS119 SHIFTER-1
D592 1SS119 SHIFTER-2
D593 1SS119 SHIFTER-3
Q507 2SA1175-F +BLK-GENE
Q591 2SC2785-F VIDEO-BUFF-2
Q598 2SC2785-F VIDEO-AMP
D508 1SS119
CND23 S3W-H
1 GND
2 VIDEO
3 S-TV
TO V BOARD
Y CROSS
PIN PHASE
P. COR
PIN AMP
IC1501 CXA2031A
GND IREF Vcc X IN 2 X OUT X IN 1 COMP
OUT
CORNER COR
D1502 1SS119
H. SIZE
D1503 1SS119 V. PARA-CCM
D1504 1SS119 COM. H-PULSE
D1505 WC931 H. SIZE-CORR
D1501 RGP10G PROTECT
28V
V. CENT
V. ANG
V. SIZE
12V
Q1551 2SC2785T-F PIN-DRIVE
Q1552 2SC3298A PIN-OUT
IC503 STR90120
CND87 M2W-H
1 GND
2 GND
TO PICTURE TUBE COATING EARTH
CND20 MSW-H
1 15V IN
2 GND
3 12V OUT
4 ST. BY
5 NC
D502 ERB12-01 DC-SHIFTER
CNJ04
AV1 R IN
AV1 L IN
AV1 IN
S Y IN
S CROMA
AV2 R IN
AV2 L IN
AV2 VIDEO
CNJ07 S4B-L
TO J1 BOARD
J1-7
S1402 SUB
S1401 AFT
CNJ03 B-TO-B
21 GND
20 V IN
19 V OUT
18 GND
17 GND
16 BLK
15 R
14 GND
13 GND
12 NC
11 G
10 NC
9 GND
8 MODE
7 B
6 L IN
5 GND
4 GND
3 L OUT
2 R IN
1 R OUT
JW1407
D1428 1SS119
Q1406 2SC2785
Q1407 2SA1175-F VIDEO-AMP2
Q1408 2SC2785-F CROMA-AMP. 1
Q1409 2SC2785-F CROMA-AMP. 2
Q1410 2SC2785-F CROMA-AMP. 3
D1421 RD7.5ES-B3 PROTECTOR
D1422 RD7.5ES-B3 PROTECTOR
D1423 RD7.5ES-B3 PROTECTOR
D1424 1SS119 STOPPER
D1425 1SS119 STOPPER
D1426 1SS119 STOPPER
D1429 1SS119 STOPPER
D1403 RD7.5ES-T1B3
D1406 RD7.5ES-T1B3
D1408 RD9.1ES-T1B3 9V-REG
D1407 RD10ES-B3 10V-REG
D1419 1SS119 STOPPER
D1409 RD9.1ES-B3
D1410 RD9.1ES-B3
IC1401 CXA1114P
ATV L OUT
ATV R OUT
A1 L OUT
A1 R OUT
A2 L OUT
A2 R OUT
SCL
SDA
V TV OUT
V1 OUT
V2 OUT
VTV IN
Q1405 2SC2785-F V-AMP2
Q1402 2SA1175-F V-AMP1
L1402 10mH
L1405 10mH
L1406 10mH
VIDEO
CNJ02 B-10-B
GND
VAL
R OUT
M2 (GND)
AV (GND)
SCL
SDA
S CROMA
S SW
TO K BOARD CNK02
CNJ01 B-10-B
L IN
R IN
GND AU
L OUT
R OUT
GND AU
R
G
B
GND
BLK
NC
12V
MOD1
GND
V OUT
GND
V TV IN
TO K BOARD CNK01

5-9. PRINTED WIRING BOARDS (3) —conductor side—

—D Board—

[JUNGLE, 50/60 SW, PIN AMP, H•V OUT] **D** **D**



IC	
IC501	I−8
IC502	G−3
IC503	G−1
IC1501	B−4

TRANSISTOR	
Q501	I−6
Q502	H−8
Q503	I−5
Q505	G−2
Q506	H−2
Q507	J−4
Q512	G−9
Q515	J−6
Q591	H−6
Q598	H−5
Q804	E−13
Q805	G−12
Q806	C−7
Q807	C−7
Q1551	B−6
Q1552	A−6
Q1608	H−11
Q1609	H−11
Q1610	H−12
Q1613	H−11

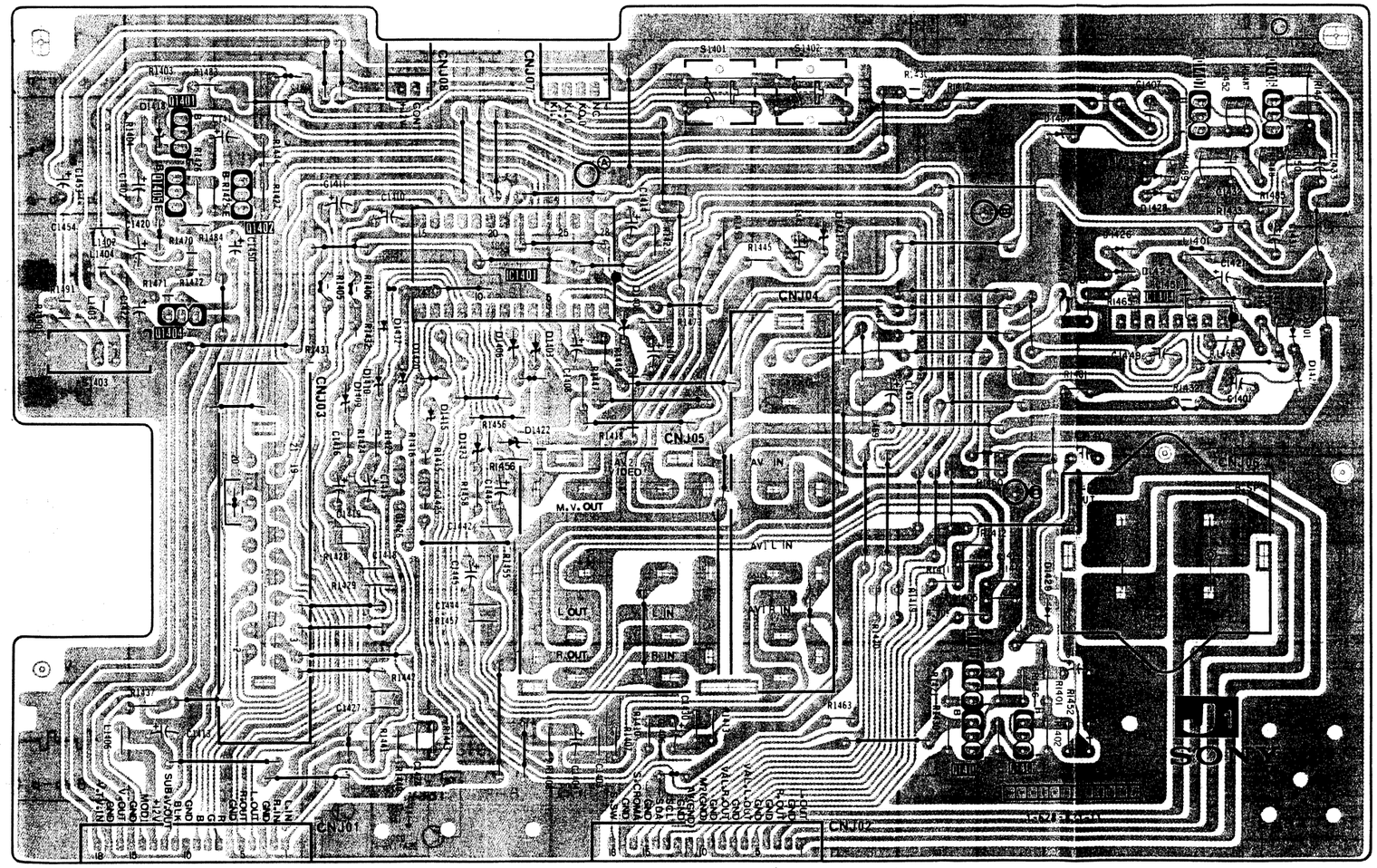
DIODE	
D501	I−8
D502	J−3
D504	G−2
D506	H−8
D508	J−5
D509	F−2
D511	G−2
D512	G−2
D513	G−2
D591	H−5
D592	H−5
D593	H−5
D801	G−11
D802	C−10
D803	F−10
D804	F−7
D805	F−7
D806	E−11
D807	D−10
D808	B−10
D809	D−7
D850	B−12
D1501	A−6
D1502	B−5
D1503	B−5
D1504	B−5
D1505	A−5
D1550	H−10
D1552	B−8
D1553	H−12

VARIABLE RESISTOR	
RV502	I−9
RV1501	A−4
RV1502	A−3
RV1503	A−3
RV1504	A−5
RV1505	A−5
RV1506	A−2
RV1507	A−2
RV1508	A−2
RV1509	A−3

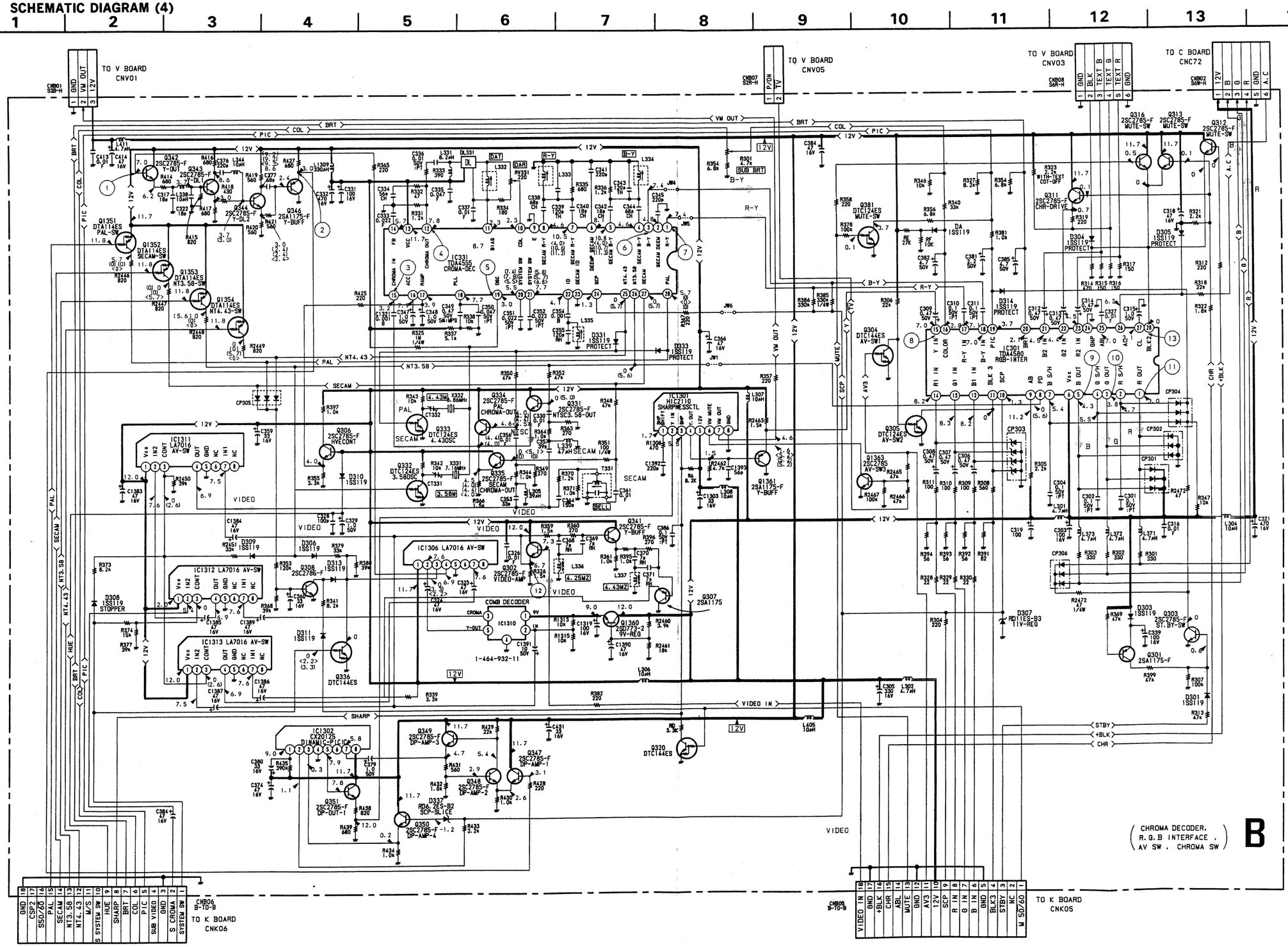
www.manualscenter.com

[AV SW, VIDEO AMP] **J1** **J1**

—J1 Board—



5-10. SCHEMATIC DIAGRAM (4)



●B BOARD WAVEFORM

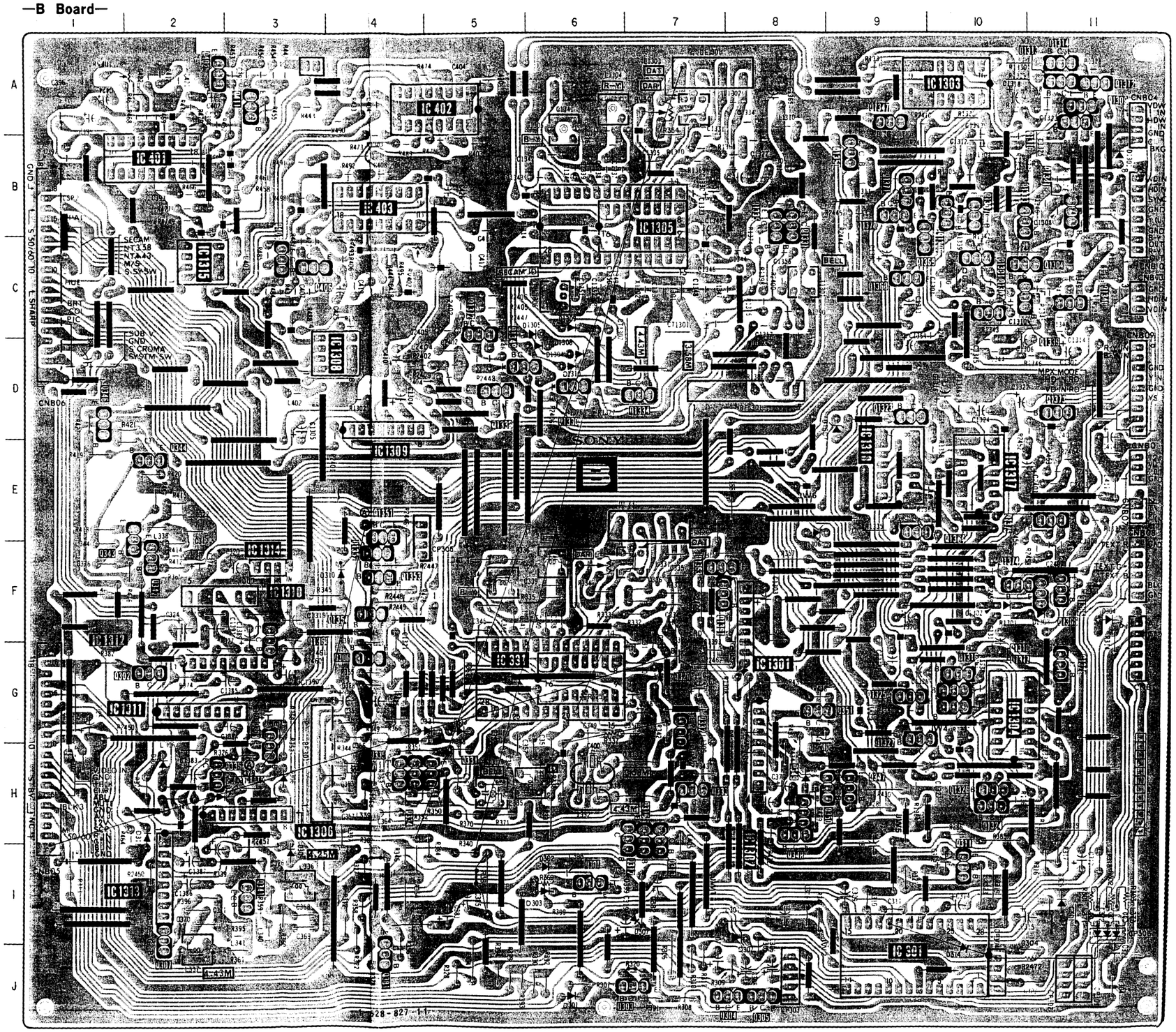
① 0.8 Vp-p (H)	⑧ 0.2 Vp-
② 0.5Vp-p (H)	⑨ 4.0 Vp-
③ 0.1Vp-p (H)	⑩ 4.0 Vp-
④ 1.5Vp-p (H)	⑪ 4.0 Vp
⑤ 0.15Vp-p (3.58MHz)	⑫ 0.8Vp
⑥ 1 Vp-p (H)	⑬ 40.0Vp-
⑦ 0.8Vp-p (H)	

[CHROMA DECODER, R•G•B INTEREFACE, AV SW, CHROMA SW.] **B**

5-11. PRINTED WIRING BOARDS (4)

—conductor side—

—B Board—



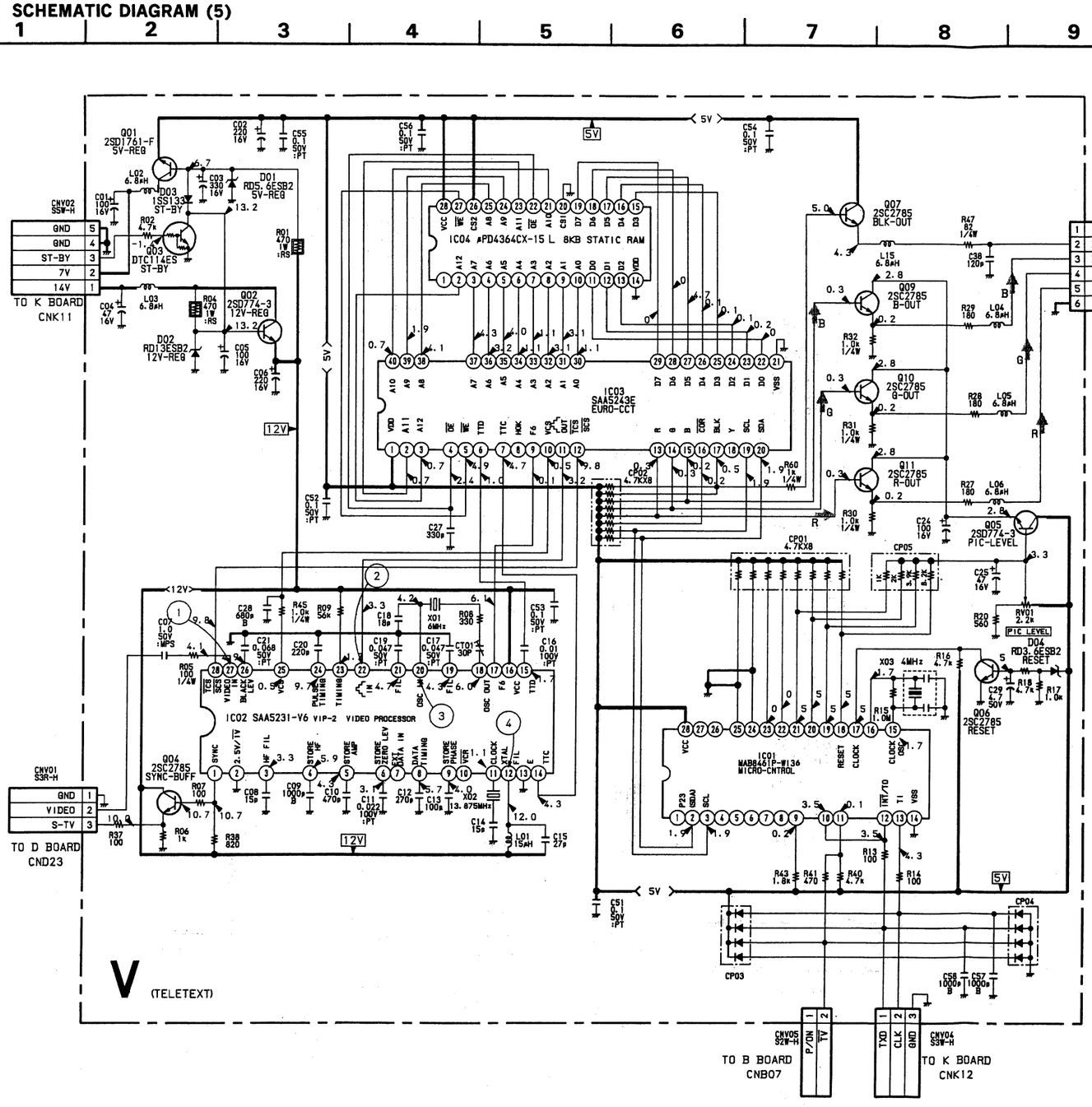
WAVEFORM

(H)	⑧ 0.2 Vp-p (H)
(H)	⑨ 4.0 Vp-p (H)
(H)	⑩ 4.0 Vp-p (H)
(H)	⑪ 4.0 Vp-p (H)
p Hz)	⑫ 0.8Vp-p (H)
(H)	⑬ 40.0Vp-p (V)
(H)	

IC		Q350	H-8
IC301	J-9	Q351	G-8
IC331	G-5	Q381	J-4
IC1301	G-8	Q1351	F-4
IC1302	H-8	Q1352	F-4
IC1306	H-3	Q1353	F-4
IC1310	F-3	Q1354	F-4
IC1311	G-2	Q1360	G-4
IC1312	F-1	Q1361	F-8
IC1313	I-2	Q1363	F-7

TRANSISTOR		DIODE	
Q301	I-6	D301	J-6
Q302	G-2	D302	I-6
Q303	J-6	D303	I-6
Q304	J-7	D304	F-11
Q305	J-8	D305	I-11
Q306	G-4	D306	H-3
Q307	J-2	D307	I-6
Q308	G-3	D308	H-2
Q311	I-10	D309	I-3
Q312	I-6	D310	F-4
Q313	I-7	D311	H-2
Q316	H-7	D313	H-2
Q320	G-7	D314	I-10
Q331	H-5	D331	G-4
Q332	G-7	D333	G-5
Q333	H-7	D337	H-8
Q334	H-4		
Q335	H-4	VARIABLE RESISTOR	
Q336	H-2	RV301	A-7
Q341	I-3	RV331	F-6
Q342	F-2		
Q343	F-1		
Q344	E-2		
Q345	F-1		
Q346	D-1		
Q347	H-9		
Q348	H-8		
Q349	H-8		

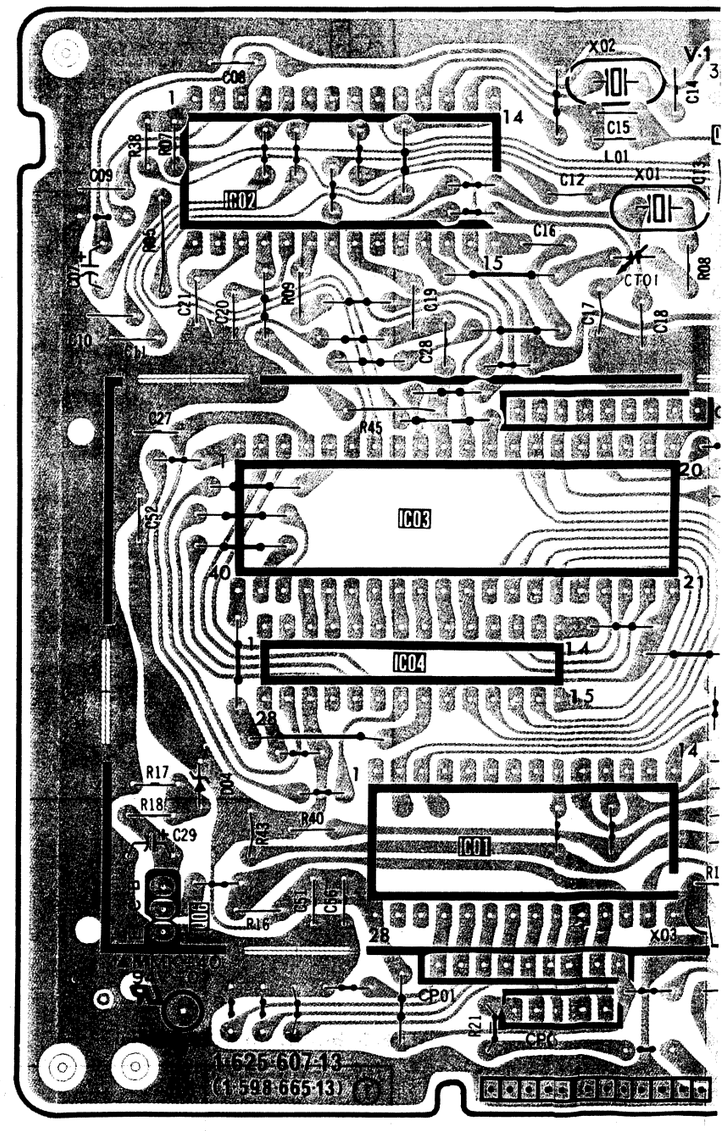
5-12. SCHEMATIC DIAGRAM (5)



● **V BOARD WAVEFORM**

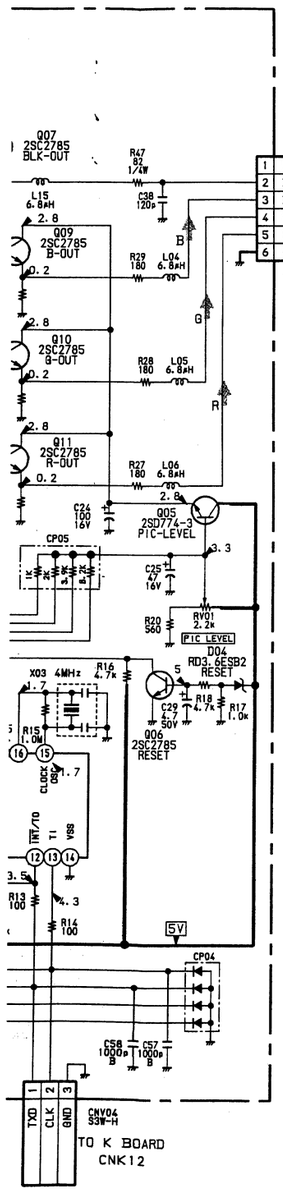
①	②	③	④
1.8 Vp-p (H)	4.8 Vp-p (V)	0.4 Vp-p (5.5MHz)	0.65 Vp-p (10MHz)

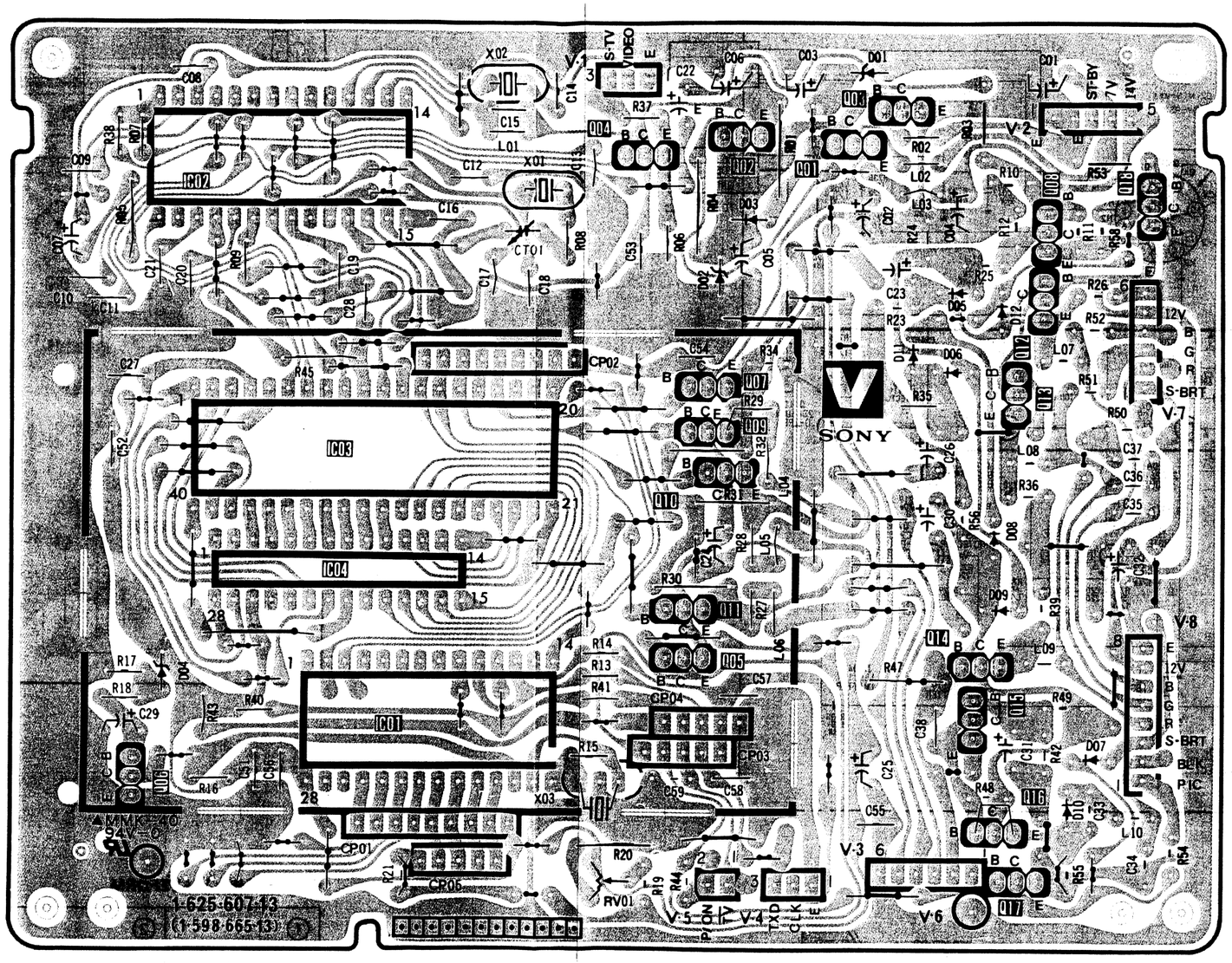
5-13. PRINTED WIRING BOARDS (5) —conductor side— —V Board—



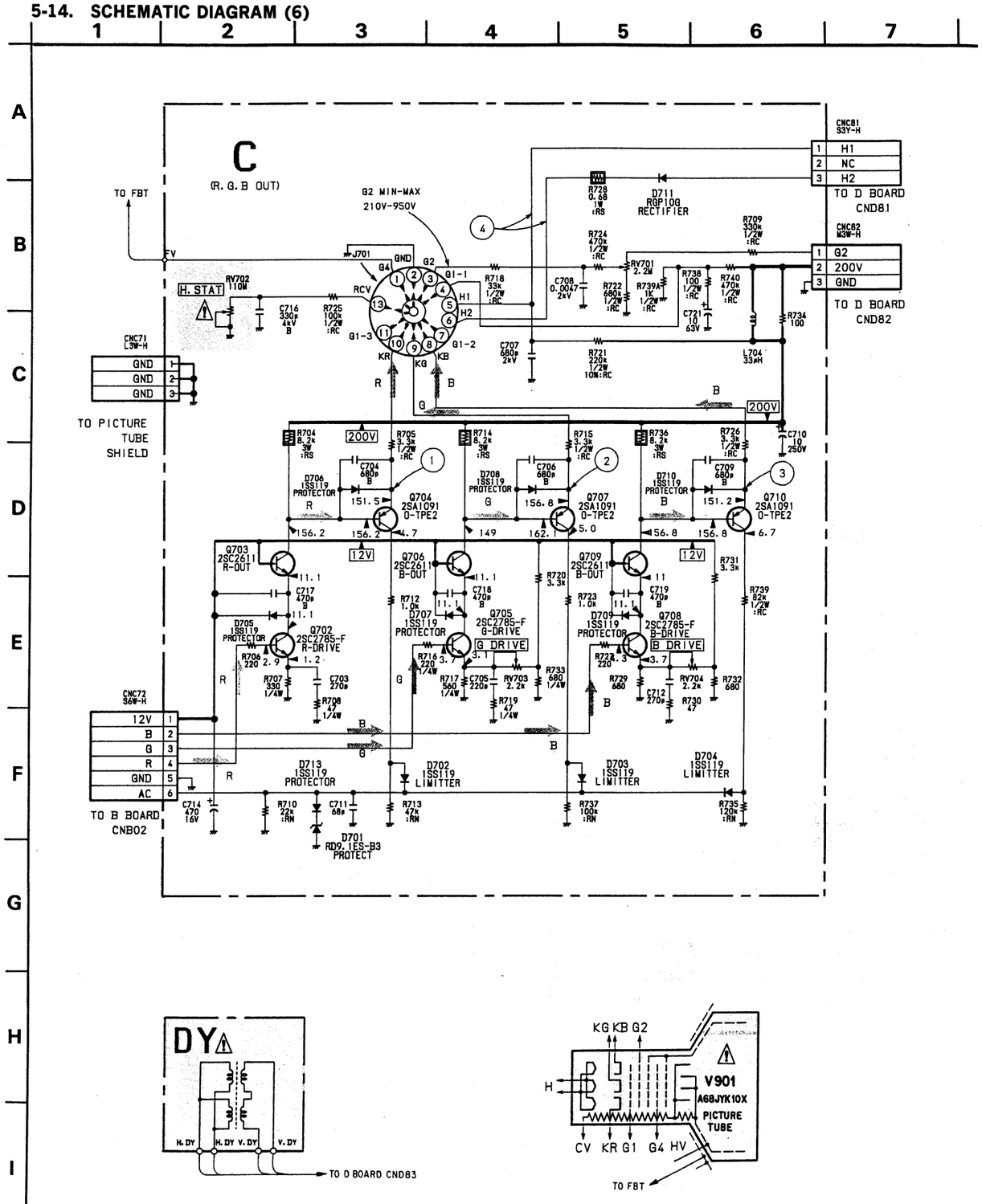
[TELETEX] V V

5-13. PRINTED WIRING BOARDS (5) —conductor side—
—V Board—

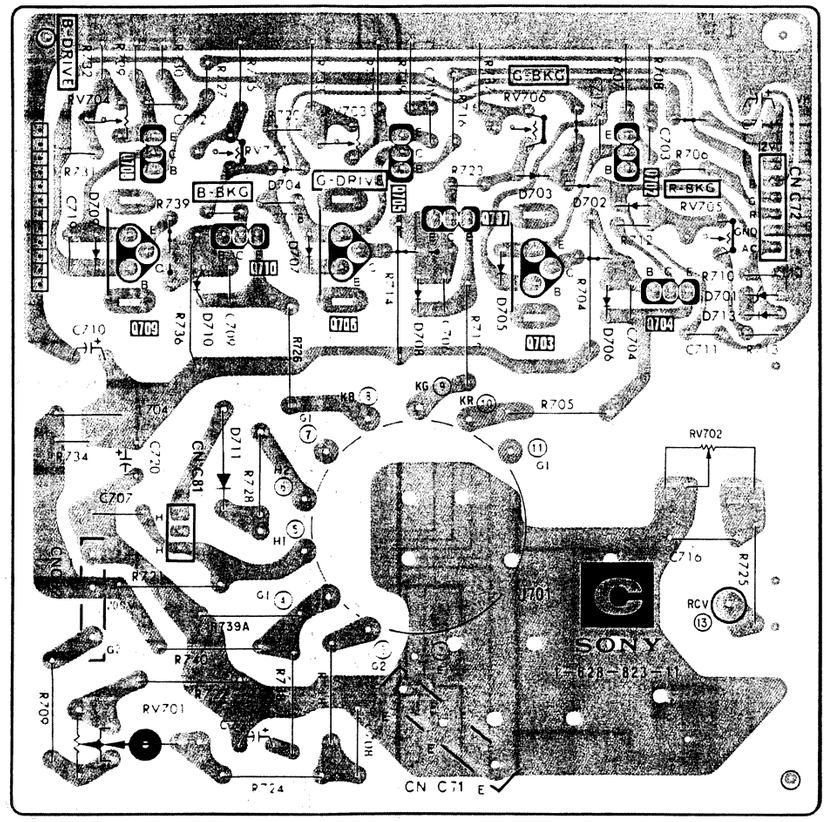




5-14. SCHEMATIC DIAGRAM (6)



5-15. PRINTED WIRING BOARD (6) —conductor side—
—C Board—

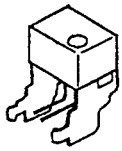


●C BOARD WAVEFORM

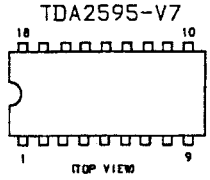
①	②	③	④
100 Vp-p (H)	95 Vp-p (H)	90 Vp-p (H)	24 Vp-p (H)

5-16. SEMICONDUCTORS

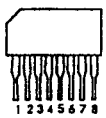
BX1387



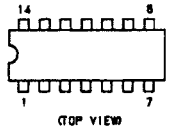
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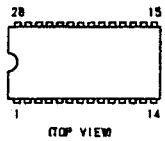
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LA7016



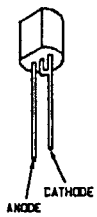
μPC324C



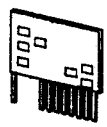
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SAA5231
SAB3035
TDA4555-V8
TDA4580
TDA6200
TDA6600
TEA2028A
μPD4364CX



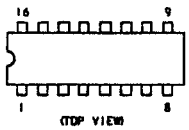
μPC574J



TDA8170



HD14052
PCF8574



DTA114ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



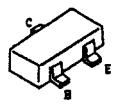
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STR90120



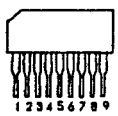
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DTC124EK
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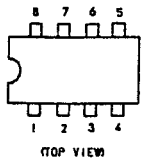
STR-S5941



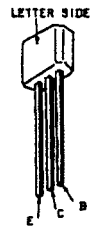
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PCD8582
TBA129
TEA2031A



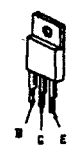
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2SC2785



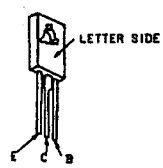
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2SB734
2SD773
2SD774



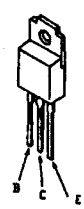
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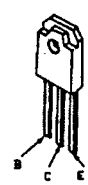
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2SC2688



2SD1761



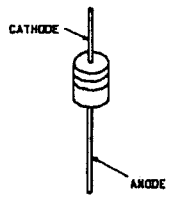
2SD1941



2SK105A



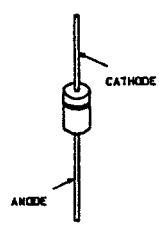
1SS119
RD3.9ES-B1
RD4.7ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B3
RD9.1ES-B3
RD10ES-B3
RD11ES-B3



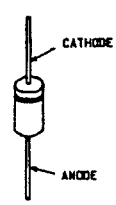
TCU-125



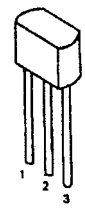
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ERD29-08J
R2M
RH-1
R2KL
RU-3AM
RU-4Z-K2



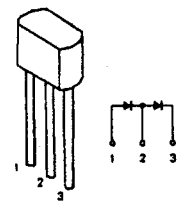
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RGP10GPKG23
RGP15JPKG23



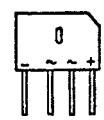
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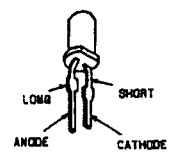
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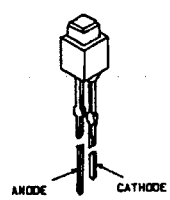
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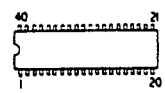
TLR124



5P4M



SAA5243E



(Top view)

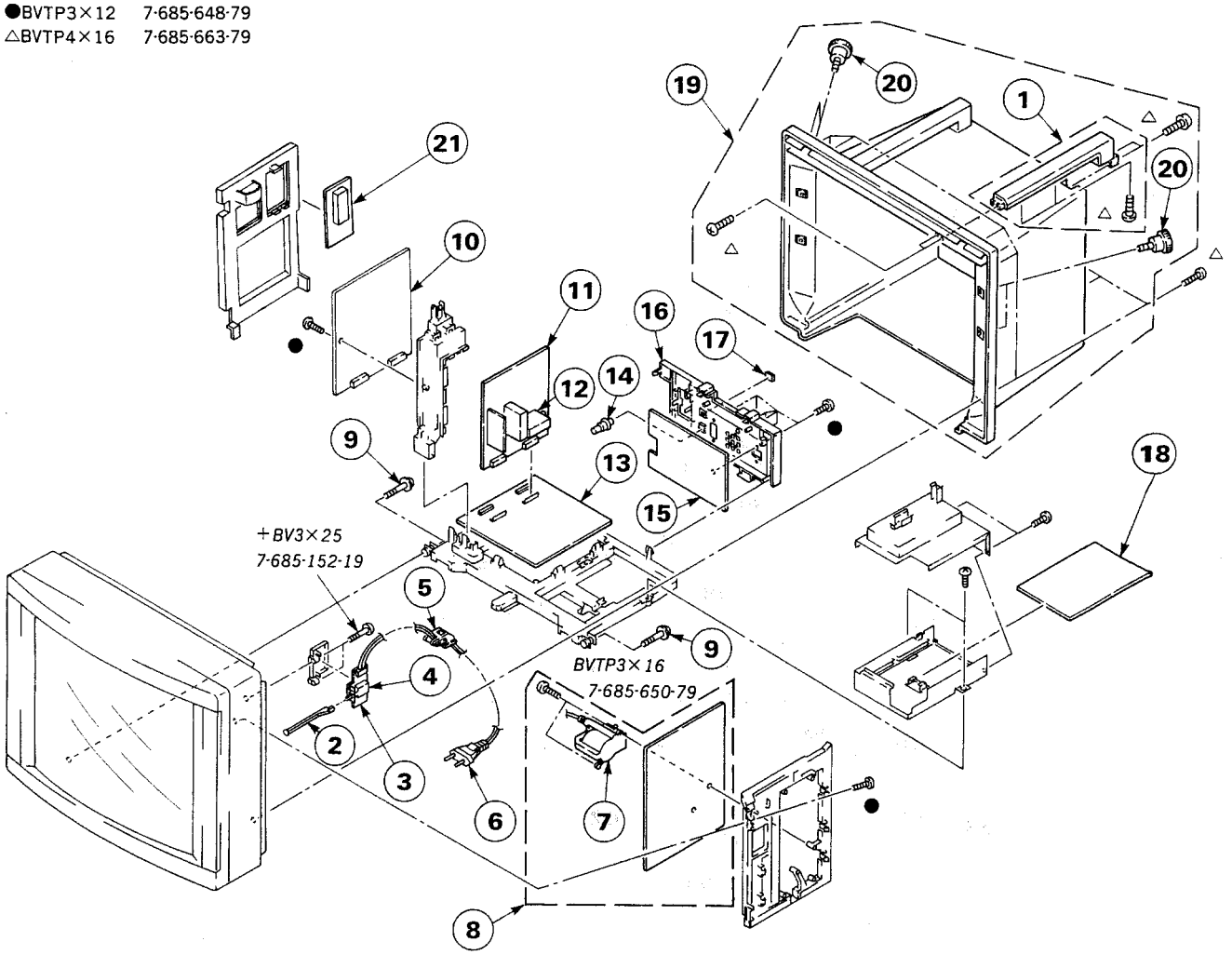
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

1. CHASSIS

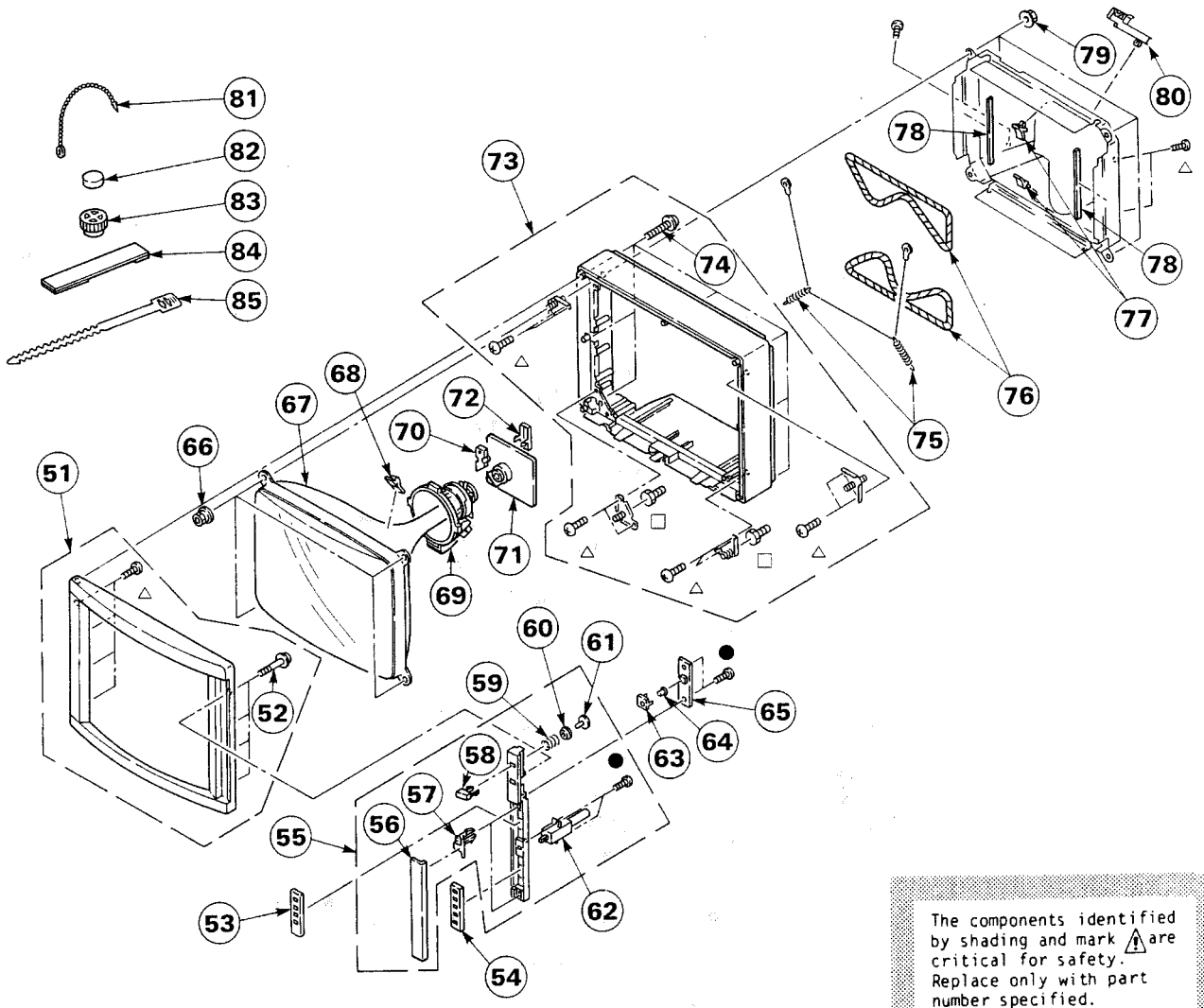
●BVTP3×12 7-685-648-79
△BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4390-706-1	HANDLE ASSY	
2	4-392-405-01	ROD, PUSH	
3	*1-628-825-11	F2 BOARD	
4	⚠1-571-433-11	SWITCH, PUSH (AC POWER)	
5	⚠4-389-778-01	HOLDER, AC CORD	
6	⚠1-574-380-11	CORD, POWER (WITH CONNECTOR)	
7	⚠1-439-418-31	TRANSFORMER ASSY, FLYBACK	
8	*A-1345-814-A	D BOARD, COMPLETE	7
9	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
10	*A-1135-534-A	B BOARD, COMPLETE	
11	*A-1296-521-A	A BOARD, COMPLETE	
12	⚠1-465-109-11	TUNER, BT (UV-618)	
13	*A-1385-049-A	K BOARD, COMPLETE	
14	⚠1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)	
15	*A-1388-083-A	J1 BOARD, COMPLETE	
16	4-392-411-01	BRACKET, J	
17	4-392-418-01	SHEET, BLIND	
18	*A-1245-447-A	F1 BOARD, COMPLETE	
19	X-4392-404-1	COVER ASSY, REAR	1,20
20	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
21	*A-1347-036-A	V BOARD, COMPLETE	

2. PICTURE TUBE

●BVTP3×12 7-685-648-79
△BVTP4×16 7-685-663-79
□BOLT, HEXAGON 5×20 7-683-340-07



The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4392-406-2	BEZEL ASSY	52
52	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
53	1-466-097-11	PANEL BLOCK	
54	1-466-096-11	PANEL BLOCK	
55	X-4392-402-1	BRACKET ASSY, H	56-62
56	X-4392-407-1	DOOR ASSY, CONTROL	
57	4-350-201-00	SHAFT, DOOR	
58	4-391-709-01	BUTTON, POWER	
59	4-374-257-01	SPRING, COMPRESSION	
60	4-385-404-01	CUSHION, SPRING	
61	4-370-505-01	STOPPER, BUTTON, HIT TERMINAL	
62	4-391-701-01	DAMPER	
63	*4-388-955-01	BRACKET (B), LIGHT GUIDE	
64	*4-374-987-01	GUIDE, LIGHT	
65	*1-628-824-11	H3 BOARD	
66	4-376-980-01	NUT, SPECIAL, CRT	
67	⚠8-733-821-05	PICTURE TUBE (A68JYK10X)	
68	3-703-961-01	SPACER, DY	
69	⚠1-451-313-12	DEFLECTION YOKE (SY-191)	
70	*4-379-167-01	COVER (MAIN), CV	
71	*A-1330-914-A	C BOARD, COMPLETE	
72	*4-379-160-01	COVER (REAR LID), CV	
73	X-4391-703-3	CABINET ASSY	74
74	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
75	4-369-318-00	SPRING, TENSION	
76	⚠1-426-408-11	COIL, DEMAGNETIZATION	
77	*4-371-629-01	STOPPER, WIRE	
78	*4-915-938-01	CUSHION (D)	
79	4-306-034-00	FLANGE NUT, (B) 5MM	
80	*4-387-216-01	HOLDER, LEAD	
81	4-308-870-00	CLIP, LEAD WIRE	
82	1-452-032-00	MAGNET, DISK; 10MM φ	
83	1-452-094-00	MAGNET, ROTATABLE DISK; 10MM φ	
84	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
85	3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1135-534-A	B BOARD, COMPLETE **********			
		<CAPACITOR>			
C301	1-136-165-00	MYLAR	0.1MF	10% 50V	
C302	1-136-165-00	MYLAR	0.1MF	10% 50V	
C303	1-126-101-11	ELECT	100MF	20% 16V	
C304	1-136-165-00	MYLAR	0.1MF	10% 50V	
C305	1-124-119-00	ELECT	330MF	20% 16V	
C306	1-124-902-00	ELECT	0.47MF	20% 50V	
C307	1-124-902-00	ELECT	0.47MF	20% 50V	
C308	1-124-902-00	ELECT	0.47MF	20% 50V	
C309	1-124-902-00	ELECT	0.47MF	20% 50V	
C310	1-136-165-00	MYLAR	0.1MF	10% 50V	
C311	1-136-165-00	MYLAR	0.1MF	10% 50V	
C312	1-124-902-00	ELECT	0.47MF	20% 50V	
C313	1-124-902-00	ELECT	0.47MF	20% 50V	
C314	1-124-902-00	ELECT	0.47MF	20% 50V	
C315	1-124-499-11	ELECT	1MF	20% 50V	
C316	1-101-004-00	CERAMIC	0.01MF	50V	
C317	1-102-953-00	CERAMIC	18PF	5% 50V	
C318	1-124-477-11	ELECT	47MF	20% 16V	
C319	1-126-101-11	ELECT	100MF	20% 16V	
C321	1-126-103-11	ELECT	470MF	20% 16V	
C322	1-102-953-00	CERAMIC	18PF	5% 50V	
C323	1-124-477-11	ELECT	47MF	20% 16V	
C324	1-124-477-11	ELECT	47MF	20% 16V	
C326	1-101-004-00	CERAMIC	0.01MF	50V	
C327	1-101-004-00	CERAMIC	0.01MF	50V	
C328	1-102-973-00	CERAMIC	100PF	5% 50V	
C329	1-124-499-11	ELECT	1MF	20% 50V	
C330	1-101-004-00	CERAMIC	0.01MF	50V	
C331	1-126-101-11	ELECT	100MF	20% 16V	
C332	1-124-360-00	ELECT	1000MF	20% 16V	
C333	1-101-005-00	CERAMIC	0.022MF	50V	
C334	1-101-884-00	CERAMIC	56PF	5% 50V	
C335	1-101-006-00	CERAMIC	0.047MF	50V	
C336	1-136-153-00	MYLAR	0.01MF	10% 50V	
C337	1-101-004-00	CERAMIC	0.01MF	50V	
C338	1-101-888-00	CERAMIC	68PF	5% 50V	
C339	1-102-816-00	CERAMIC	120PF	5% 50V	
C340	1-102-953-00	CERAMIC	18PF	5% 50V	
C341	1-102-978-00	CERAMIC	220PF	5% 50V	
C342	1-102-953-00	CERAMIC	18PF	5% 50V	
C343	1-102-816-00	CERAMIC	120PF	5% 50V	
C344	1-101-888-00	CERAMIC	68PF	5% 50V	
C345	1-102-978-00	CERAMIC	220PF	5% 50V	
C347	1-124-499-11	ELECT	1MF	20% 50V	
C348	1-124-499-11	ELECT	1MF	20% 50V	
C349	1-136-173-00	FILM	0.47MF	5% 50V	
C350	1-136-161-00	MYLAR	0.047MF	10% 50V	
C351	1-136-157-00	MYLAR	0.022MF	10% 50V	
C352	1-136-157-00	MYLAR	0.022MF	10% 50V	
C353	1-102-963-00	CERAMIC	33PF	5% 50V	
C354	1-102-074-00	CERAMIC	0.001MF	10% 50V	
C355	1-102-816-00	CERAMIC	120PF	5% 50V	
C356	1-101-004-00	CERAMIC	0.01MF	50V	
C357	1-102-965-00	CERAMIC	39PF	5% 50V	
C359	1-124-963-11	ELECT	33MF	20% 16V	
C360	1-124-963-11	ELECT	33MF	20% 16V	
C361	1-101-004-00	CERAMIC	0.01MF	50V	
C364	1-101-361-00	CERAMIC	150PF	5% 50V	
C366	1-124-360-00	ELECT	1000MF	20% 16V	
C368	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C369	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C370	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C371	1-102-944-00	CERAMIC	7PF	0.5PF 50V	
C374	1-124-477-11	ELECT	47MF	20% 16V	
C376	1-102-978-00	CERAMIC	220PF	5% 50V	
C377	1-101-888-00	CERAMIC	68PF	5% 50V	
C379	1-124-499-11	ELECT	1MF	20% 50V	
C380	1-124-963-11	ELECT	33MF	20% 16V	
C381	1-124-925-11	ELECT	2.2MF	20% 50V	
C382	1-124-927-11	ELECT	4.7MF	20% 50V	
C384	1-124-477-11	ELECT	47MF	20% 16V	
C385	1-124-927-11	ELECT	4.7MF	20% 50V	
C386	1-136-165-00	MYLAR	0.1MF	10% 50V	
C398	1-101-004-00	CERAMIC	0.01MF	50V	
C399	1-126-101-11	ELECT	100MF	20% 16V	
C413	1-101-004-00	CERAMIC	0.01MF	50V	
C414	1-124-477-11	ELECT	47MF	20% 16V	
C431	1-124-963-11	ELECT	33MF	20% 16V	
C1303	1-124-963-11	ELECT	33MF	20% 16V	
C1319	1-126-101-11	ELECT	100MF	20% 16V	
C1321	1-102-074-00	CERAMIC	0.001MF	10% 50V	
C1383	1-124-477-11	ELECT	47MF	20% 16V	
C1384	1-124-477-11	ELECT	47MF	20% 16V	
C1385	1-124-477-11	ELECT	47MF	20% 16V	
C1386	1-124-477-11	ELECT	47MF	20% 16V	
C1387	1-124-477-11	ELECT	47MF	20% 16V	
C1389	1-124-477-11	ELECT	47MF	20% 16V	
C1390	1-124-477-11	ELECT	47MF	20% 16V	
C1391	1-123-875-11	ELECT	10MF	20% 50V	
C1392	1-102-978-00	CERAMIC	220PF	5% 50V	
C1393	1-101-884-00	CERAMIC	56PF	5% 50V	
		<CONNECTOR>			
CNB01	*1-564-506-11	PLUG, CONNECTOR 3P			
CNB02	*1-564-509-11	PLUG, CONNECTOR 6P			
CNB05	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P			

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNB06	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P	
CNB07	*1-564-505-11	PLUG, CONNECTOR 2P	
CNB08	*1-564-509-11	PLUG, CONNECTOR 6P	
		<TRIMMER>	
CT331	1-141-181-11	CAP, TRIMMER	
CT332	1-141-181-11	CAP, TRIMMER	
		<DIODE>	
D301	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-110-23	DIODE RD11ES-B3	
D308	8-719-911-19	DIODE 1SS119	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D311	8-719-911-19	DIODE 1SS119	
D313	8-719-911-19	DIODE 1SS119	
D314	8-719-911-19	DIODE 1SS119	
D331	8-719-911-19	DIODE 1SS119	
D333	8-719-911-19	DIODE 1SS119	
D337	8-719-109-93	DIODE RD6.2ES-B2	
DA	8-719-911-19	DIODE 1SS119	
		<DELAY LINE>	
DL331	1-415-122-31	DELAY LINE, 1H (PAL)	
		<IC>	
IC301	8-759-923-81	IC TDA4580	
IC331	8-759-947-20	IC TDA4555-V8	
IC1301	1-235-534-11	CONTROL MODULE, PICTURE	
IC1302	8-759-913-11	IC CX20125	
IC1306	8-759-800-81	IC LA7016	
IC1310	1-464-932-11	FILTER BLOCK, COM (CFB-3)	
IC1311	8-759-800-81	IC LA7016	
IC1312	8-759-800-81	IC LA7016	
IC1313	8-759-800-81	IC LA7016	
		<COIL>	
L301	1-410-466-41	INDUCTOR 4.7UH	
L302	1-410-466-41	INDUCTOR 4.7UH	
L304	1-410-470-11	INDUCTOR 10UH	
L305	1-408-416-00	INDUCTOR 39UH	
L306	1-410-470-11	INDUCTOR 10UH	
L307	1-410-470-11	INDUCTOR 10UH	
L308	1-410-470-11	INDUCTOR 10UH	
L331	1-408-408-00	INDUCTOR 8.2UH	
L332	1-404-539-11	COIL	
L333	1-404-554-11	COIL	
L334	1-404-554-11	COIL	
L335	1-404-554-11	COIL	
L336	1-404-495-00	COIL	
L337	1-404-495-00	COIL	
L338	1-410-470-11	INDUCTOR 10UH	
L339	1-410-478-11	INDUCTOR 47UH	
L344	1-410-470-11	INDUCTOR 10UH	
L371	1-410-466-41	INDUCTOR 4.7UH	
L372	1-410-466-41	INDUCTOR 4.7UH	
L373	1-410-466-41	INDUCTOR 4.7UH	
L405	1-410-470-11	INDUCTOR 10UH	
L411	1-410-466-41	INDUCTOR 4.7UH	
L1309	1-408-427-00	INDUCTOR 330UH	
		<TRANSISTOR>	
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q304	8-729-900-89	TRANSISTOR DTC144ES	
Q305	8-729-900-36	TRANSISTOR DTC124ES	
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q311	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q316	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q320	8-729-900-89	TRANSISTOR DTC144ES	
Q331	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q332	8-729-900-36	TRANSISTOR DTC124ES	
Q333	8-729-900-36	TRANSISTOR DTC124ES	
Q334	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q335	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q336	8-729-900-89	TRANSISTOR DTC144ES	
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q343	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q346	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q347	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q348	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q349	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q350	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q381	8-729-900-36	TRANSISTOR DTC124ES	
Q1351	8-729-900-61	TRANSISTOR DTA114ES	
Q1352	8-729-900-61	TRANSISTOR DTA114ES	
Q1353	8-729-900-61	TRANSISTOR DTA114ES	
Q1354	8-729-900-61	TRANSISTOR DTA114ES	
Q1360	8-729-177-32	TRANSISTOR 2SD773	
Q1361	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1363	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R301	1-249-411-11	CARBON 330 5% 1/4W	
R302	1-249-411-11	CARBON 330 5% 1/4W	
R303	1-249-411-11	CARBON 330 5% 1/4W	
R304	1-247-704-11	CARBON 220 5% 1/4W	
R305	1-249-421-11	CARBON 2.2K 5% 1/4W	
R306	1-249-462-11	CARBON 22K 5% 1/4W	
R307	1-249-441-11	CARBON 100K 5% 1/4W	
R308	1-249-414-11	CARBON 560 5% 1/4W	
R309	1-249-405-11	CARBON 100 5% 1/4W	
R310	1-249-405-11	CARBON 100 5% 1/4W	
R311	1-249-405-11	CARBON 100 5% 1/4W	
R312	1-249-409-11	CARBON 220 5% 1/4W	
R313	1-249-437-11	CARBON 47K 5% 1/4W	
R314	1-249-413-11	CARBON 470 5% 1/4W	
R315	1-247-702-11	CARBON 150 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R316	1-249-407-11	CARBON	150	5%	1/4W	
R317	1-249-407-11	CARBON	150	5%	1/4W	
R318	1-249-433-11	CARBON	22K	5%	1/4W	
R319	1-247-704-11	CARBON	220	5%	1/4W	
R321	1-249-421-11	CARBON	2.2K	5%	1/4W	
R322	1-249-420-11	CARBON	1.8K	5%	1/4W	
R323	1-247-717-11	CARBON	2.2K	5%	1/4W	
R325	1-246-545-00	CARBON	1M	5%	1/4W	
R326	1-249-419-11	CARBON	1.5K	5%	1/4W	
R327	1-249-428-11	CARBON	8.2K	5%	1/4W	
R328	1-249-397-11	CARBON	22	5%	1/4W	
R329	1-249-397-11	CARBON	22	5%	1/4W	
R330	1-249-397-11	CARBON	22	5%	1/4W	
R331	1-249-418-11	CARBON	1.2K	5%	1/4W	
R332	1-249-401-11	CARBON	47	5%	1/4W	
R333	1-249-412-11	CARBON	390	5%	1/4W	
R334	1-249-408-11	CARBON	180	5%	1/4W	
R335	1-249-415-11	CARBON	680	5%	1/4W	
R336	1-249-418-11	CARBON	1.2K	5%	1/4W	
R337	1-247-148-00	CARBON	5.1K	5%	1/4W	
R338	1-249-429-11	CARBON	10K	5%	1/4W	
R339	1-249-423-11	CARBON	3.3K	5%	1/4W	
R340	1-249-435-11	CARBON	33K	5%	1/4W	
R341	1-249-428-11	CARBON	8.2K	5%	1/4W	
R342	1-249-429-11	CARBON	10K	5%	1/4W	
R343	1-249-429-11	CARBON	10K	5%	1/4W	
R344	1-249-417-11	CARBON	1K	5%	1/4W	
R345	1-247-887-00	CARBON	220K	5%	1/4W	
R346	1-249-429-11	CARBON	10K	5%	1/4W	
R347	1-249-429-11	CARBON	10K	5%	1/4W	
R348	1-249-437-11	CARBON	47K	5%	1/4W	
R349	1-249-410-11	CARBON	270	5%	1/4W	
R350	1-249-437-11	CARBON	47K	5%	1/4W	
R351	1-247-700-11	CARBON	100	5%	1/4W	
R352	1-249-437-11	CARBON	47K	5%	1/4W	
R353	1-247-881-00	CARBON	120K	5%	1/4W	
R354	1-247-723-11	CARBON	6.8K	5%	1/4W	
R355	1-249-423-11	CARBON	3.3K	5%	1/4W	
R356	1-249-427-11	CARBON	6.8K	5%	1/4W	
R357	1-247-704-11	CARBON	220	5%	1/4W	
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-419-11	CARBON	1.5K	5%	1/4W	
R360	1-249-410-11	CARBON	270	5%	1/4W	
R361	1-249-417-11	CARBON	1K	5%	1/4W	
R363	1-249-410-11	CARBON	270	5%	1/4W	
R364	1-249-417-11	CARBON	1K	5%	1/4W	
R365	1-249-409-11	CARBON	220	5%	1/4W	
R366	1-249-419-11	CARBON	1.5K	5%	1/4W	
R367	1-247-704-11	CARBON	220	5%	1/4W	
R368	1-249-436-11	CARBON	39K	5%	1/4W	
R369	1-249-425-11	CARBON	4.7K	5%	1/4W	
R370	1-249-418-11	CARBON	1.2K	5%	1/4W	
R371	1-249-417-11	CARBON	1K	5%	1/4W	
R373	1-249-428-11	CARBON	8.2K	5%	1/4W	
R374	1-249-431-11	CARBON	15K	5%	1/4W	
R377	1-249-436-11	CARBON	39K	5%	1/4W	
R378	1-249-441-11	CARBON	100K	5%	1/4W	
R379	1-247-726-11	CARBON	33K	5%	1/4W	
R380	1-249-436-11	CARBON	39K	5%	1/4W	
R381	1-247-713-11	CARBON	1K	5%	1/4W	
R382	1-249-409-11	CARBON	220	5%	1/4W	
R385	1-247-891-00	CARBON	330K	5%	1/4W	
R386	1-247-891-00	CARBON	330K	5%	1/4W	
R391	1-249-404-00	CARBON	82	5%	1/4W	
R392	1-249-402-11	CARBON	56	5%	1/4W	
R393	1-249-402-11	CARBON	56	5%	1/4W	
R394	1-249-402-11	CARBON	56	5%	1/4W	
R395	1-249-417-11	CARBON	1K	5%	1/4W	
R396	1-249-410-11	CARBON	270	5%	1/4W	
R397	1-249-417-11	CARBON	1K	5%	1/4W	
R399	1-249-437-11	CARBON	47K	5%	1/4W	
R414	1-249-415-11	CARBON	680	5%	1/4W	
R415	1-249-416-11	CARBON	820	5%	1/4W	
R416	1-249-415-11	CARBON	680	5%	1/4W	
R417	1-249-415-11	CARBON	680	5%	1/4W	
R418	1-215-412-00	METAL	430	1%	1/6W	
R419	1-249-414-11	CARBON	560	5%	1/4W	
R420	1-249-414-11	CARBON	560	5%	1/4W	
R421	1-249-414-11	CARBON	560	5%	1/4W	
R425	1-249-409-11	CARBON	220	5%	1/4W	
R427	1-249-415-11	CARBON	680	5%	1/4W	
R428	1-247-704-11	CARBON	220	5%	1/4W	
R429	1-249-462-11	CARBON	22K	5%	1/4W	
R430	1-247-713-11	CARBON	1K	5%	1/4W	
R431	1-249-414-11	CARBON	560	5%	1/4W	
R432	1-249-417-11	CARBON	1K	5%	1/4W	
R433	1-249-421-11	CARBON	2.2K	5%	1/4W	
R434	1-249-417-11	CARBON	1K	5%	1/4W	
R435	1-247-893-11	CARBON	390K	5%	1/4W	
R438	1-249-416-11	CARBON	820	5%	1/4W	
R439	1-249-415-11	CARBON	680	5%	1/4W	
R1308	1-249-413-11	CARBON	470	5%	1/4W	
R1313	1-249-429-11	CARBON	10K	5%	1/4W	
R1315	1-249-429-11	CARBON	10K	5%	1/4W	
R2446	1-249-416-11	CARBON	820	5%	1/4W	
R2447	1-247-712-11	CARBON	820	5%	1/4W	
R2448	1-247-712-11	CARBON	820	5%	1/4W	
R2449	1-247-712-11	CARBON	820	5%	1/4W	
R2450	1-249-436-11	CARBON	39K	5%	1/4W	
R2451	1-247-726-11	CARBON	33K	5%	1/4W	
R2460	1-249-424-11	CARBON	3.9K	5%	1/4W	
R2461	1-249-432-11	CARBON	18K	5%	1/4W	
R2462	1-247-721-11	CARBON	4.7K	5%	1/4W	
R2463	1-249-419-11	CARBON	1.5K	5%	1/4W	
R2465	1-249-465-11	CARBON	47K	5%	1/4W	
R2466	1-249-465-11	CARBON	47K	5%	1/4W	
R2467	1-249-441-11	CARBON	100K	5%	1/4W	
R2472	1-247-696-11	CARBON	47	5%	1/4W	
RA	1-249-428-11	CARBON	8.2K	5%	1/4W	
RD	1-249-423-11	CARBON	3.3K	5%	1/4W	
RE	1-249-434-11	CARBON	27K	5%	1/4W	
RF	1-249-429-11	CARBON	10K	5%	1/4W	
JW155	1-247-756-11	CARBON	2.2K	5%	1/2W	

<VARIABLE RESISTOR>

RV301	1-228-993-00	RES, ADJ, CARBON 4.7K
RV331	1-230-504-11	RES, ADJ, CARBON 220

<TRANSFORMER>

T331	1-404-584-11	COIL

<CRYSTAL>

X331	1-567-413-11	VIBRATOR, CRYSTAL
X332	1-527-789-00	VIBRATOR, CRYSTAL

F2 F1

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*1-628-825-11	F2 BOARD			
		********			
		<CONNECTOR>			
CNF11	*1-564-215-11	PIN, CONNECTOR 4P			
CNF12	*1-564-216-00	PIN, CONNECTOR 5P			
		<SWITCH>			
SW01	⚠ 1-571-433-11	SWITCH, PUSH (AC POWER)			
		**********			
	*A-1245-447-A	F1 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C601	⚠ 1-136-360-51	FILM	0.22MF	20%	250V
C602	⚠ 1-136-360-51	FILM	0.22MF	20%	250V
C604	⚠ 1-161-964-51	CERAMIC	0.0047MF		250V
C605	⚠ 1-161-964-51	CERAMIC	0.0047MF		250V
C606	⚠ 1-161-964-51	CERAMIC	0.0047MF		250V
C607	⚠ 1-161-964-51	CERAMIC	0.0047MF		250V
C608	1-124-318-00	ELECT	2.2MF		400V
C609	1-124-931-11	ELECT	47MF	20%	100V
C610	1-124-910-11	ELECT	47MF	20%	50V
C611	1-124-122-11	ELECT	100MF	20%	50V
C612	1-102-157-00	CERAMIC	560PF	10%	500V
C613	1-136-159-00	MYLAR	0.033MF	10%	50V
C614	1-162-318-11	CERAMIC	0.001MF	10%	500V
C615	1-102-030-00	CERAMIC	330PF	10%	500V
C617	1-102-030-00	CERAMIC	330PF	10%	500V
C618	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V
C619	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V
C620	1-106-387-00	MYLAR	0.068MF	10%	200V
C621	1-102-244-00	CERAMIC	220PF	10%	500V
C622	1-102-244-00	CERAMIC	220PF	10%	500V
C623	1-102-002-00	CERAMIC	680PF	10%	500V
C630	1-124-499-11	ELECT	1MF	20%	50V
C651	⚠ 1-162-578-51	CERAMIC	0.0047MF	20%	400V
C652	⚠ 1-162-578-51	CERAMIC	0.0047MF	20%	400V
C653	1-125-469-11	ELECT(BLOCK)	820MF	20%	200V
C654	1-124-607-11	ELECT	2200MF	20%	50V
C655	1-124-618-11	ELECT	2200MF	20%	35V
C656	1-124-360-00	ELECT	1000MF	20%	16V
C657	1-102-030-00	CERAMIC	330PF	10%	500V
C658	1-102-030-00	CERAMIC	330PF	10%	500V
C659	1-102-030-00	CERAMIC	330PF	10%	500V
C660	1-162-318-11	CERAMIC	0.001MF	10%	500V
C661	1-102-030-00	CERAMIC	330PF	10%	500V
C662	1-124-618-11	ELECT	2200MF	20%	35V
C663	1-102-125-00	CERAMIC	0.0047MF	10%	50V
		<CONNECTOR>			
CNF03	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
CNF04	*1-564-513-11	PLUG, CONNECTOR 10P			
CNF05	*1-564-104-00	PIN, CONNECTOR 3P			
CNF06	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			
CNF08	*1-564-505-11	PLUG, CONNECTOR 2P			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D601	⚠ 8-719-946-90	DIODE KBU4JL-6088	
D602	8-719-304-63	DIODE RM11C	
D604	8-719-108-18	THYRISTOR 5P4M	
D605	8-719-302-21	DIODE EU2Z-V1	
D607	8-719-300-70	DIODE RH-1C	
D609	8-719-110-18	DIODE RD10ES-B3	
D610	8-719-302-21	DIODE EU2Z-V1	
D615	8-719-304-63	DIODE RM11C	
D651	8-719-300-33	DIODE RU-3AM	
D652	8-719-301-64	DIODE RU4DS	
D653	8-719-300-59	DIODE CTU-12S	
D654	8-719-925-06	DIODE ERC25-06S	
D657	8-719-300-59	DIODE CTU-12S	
		<EYELET>	
EY01	*4-341-751-01	EYELET	
EY02	*4-341-751-01	EYELET	
EY03	*4-341-751-01	EYELET	
EY04	*4-341-751-01	EYELET	
EY05	*4-341-751-01	EYELET	
EY06	*4-341-751-01	EYELET	
EY07	*4-341-751-01	EYELET	
EY08	*4-341-751-01	EYELET	
EY09	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY11	*4-341-751-01	EYELET	
EY12	*4-341-751-01	EYELET	
EY13	*4-341-751-01	EYELET	
EY14	*4-341-751-01	EYELET	
EY15	*4-341-751-01	EYELET	
EY16	*4-341-751-01	EYELET	
EY17	*4-341-751-01	EYELET	
EY20	*4-341-751-01	EYELET	
EY22	*4-341-751-01	EYELET	
EY23	*4-341-751-01	EYELET	
EY50	*4-341-752-01	EYELET	
EY51	*4-341-752-01	EYELET	
EY52	*4-341-752-01	EYELET	
EY53	*4-341-752-01	EYELET	
EY54	*4-341-752-01	EYELET	
EY55	*4-341-752-01	EYELET	
EY56	*4-341-752-01	EYELET	
EY57	*4-341-752-01	EYELET	
EY58	*4-341-752-01	EYELET	
EY59	*4-341-752-01	EYELET	
EY60	*4-341-752-01	EYELET	
EY61	*4-341-752-01	EYELET	
EY62	*4-341-752-01	EYELET	
EY63	*4-341-752-01	EYELET	
EY64	*4-341-752-01	EYELET	
EY65	*4-341-752-01	EYELET	
EY66	*4-341-752-01	EYELET	
EY67	*4-341-752-01	EYELET	
		<FUSE>	
F601	⚠ 1-532-299-11	FUSE, TIME-LAG 5A/250V	
	*1-533-189-11	HOLDER, FUSE; F601	

MC-Service

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC601	8-749-920-24	IC STR80145	
	3-701-809-51	SCREW, TERMINAL (M3X12); IC601	
	4-363-414-00	SPACER, MICA; IC601	
IC602	8-749-920-63	IC STR-S5941	
	3-701-809-51	SCREW, TERMINAL (M3X12); IC602	
		<COIL>	
L602	1-410-397-21	FERRITE BEAD INDUCTOR	
L658	1-410-397-21	FERRITE BEAD INDUCTOR	
L659	1-410-397-21	FERRITE BEAD INDUCTOR	
L660	1-410-397-21	FERRITE BEAD INDUCTOR	
L661	1-410-397-21	FERRITE BEAD INDUCTOR	
L662	1-407-365-00	COIL, CHOKE	
L665	1-410-397-21	FERRITE BEAD INDUCTOR	
		<IC LINK>	
PS601 ⚠	1-532-637-91	LINK, IC 1A	
PS652 ⚠	1-532-637-91	LINK, IC 1A	
PS653 ⚠	1-532-984-91	LINK, IC 2A	
PS654 ⚠	1-532-637-91	LINK, IC 1A	
PS655 ⚠	1-532-637-91	LINK, IC 1A	
		<TRANSISTOR>	
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R601	1-205-922-11	WIREWOUND 5.6 5% 7W	
R602	1-247-895-00	CARBON 470K 5% 1/4W	
R604	1-207-612-00	WIREWOUND 0.1 10% 2W	F
R607	1-215-883-11	METAL OXIDE 33 5% 2W	F
R608	1-215-905-11	METAL OXIDE 10 5% 3W	F
R609	1-247-891-00	CARBON 330K 5% 1/4W	
R610	1-247-891-00	CARBON 330K 5% 1/4W	
R611	1-215-907-11	METAL OXIDE 22 5% 3W	F
R612	1-216-491-11	METAL OXIDE 56K 5% 3W	F
R613	1-215-892-11	METAL OXIDE 1K 5% 2W	F
R614	1-215-892-11	METAL OXIDE 1K 5% 2W	F
R620	1-215-892-11	METAL OXIDE 1K 5% 2W	F
R622	1-247-891-00	CARBON 330K 5% 1/4W	
R623	1-247-891-00	CARBON 330K 5% 1/4W	
R624	1-247-891-00	CARBON 330K 5% 1/4W	
R625	1-247-891-00	CARBON 330K 5% 1/4W	
R626	1-247-891-00	CARBON 330K 5% 1/4W	
R627	1-247-891-00	CARBON 330K 5% 1/4W	
R630	1-247-708-11	CARBON 470 5% 1/4W	
R631	1-246-539-00	CARBON 560K 5% 1/4W	
R651 ⚠	1-247-289-11	CARBON 8.2M 5% 1W	
		<SPARK GAP>	
SG601 ⚠	1-519-422-21	GAP, SPARK	
		<TRANSFORMER>	
T601 ⚠	1-421-578-11	TRANSFORMER, LINE FILTER (LFT)	
T603 ⚠	1-449-500-11	TRANSFORMER, REGULATOR	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<THERMISTOR>	
THP601 ⚠	1-808-059-31	THERMISTOR, POSITIVE	
		**********	
	*A-1296-521-A	A BOARD, COMPLETE	
		**********	
	*1-557-241-31	CABLE, P-P	
	*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P	
		<IF BLOCK>	
A01	1-466-068-11	IF BLOCK (SIF-M4)	
IFD01	1-466-064-11	IF BLOCK (IFD-389)	
IFG01	1-464-964-11	IF BLOCK (IFG-5.5S)	
		<CAPACITOR>	
C01	1-124-927-11	ELECT 4.7MF 20%	50V
C03	1-101-003-00	CERAMIC 0.0047MF	50V
C06	1-102-959-00	CERAMIC 22PF 5%	50V
C07	1-123-875-11	ELECT 10MF 20%	50V
C08	1-123-875-11	ELECT 10MF 20%	50V
C09	1-123-875-11	ELECT 10MF 20%	50V
C10	1-123-875-11	ELECT 10MF 20%	50V
C11	1-124-477-11	ELECT 47MF 20%	16V
C12	1-136-177-00	FILM 1MF 5%	50V
C13	1-101-003-00	CERAMIC 0.0047MF	50V
C14	1-101-003-00	CERAMIC 0.0047MF	50V
C15	1-123-875-11	ELECT 10MF 20%	50V
C16	1-136-157-00	MYLAR 0.022MF 10%	50V
C17	1-123-875-11	ELECT 10MF 20%	50V
C18	1-123-875-11	ELECT 10MF 20%	50V
C19	1-106-367-00	MYLAR 0.01MF 10%	400V
C20	1-126-233-11	ELECT 22MF 20%	50V
C21	1-123-875-11	ELECT 10MF 20%	50V
C22	1-106-220-00	MYLAR 0.1MF 10%	100V
C23	1-106-228-00	MYLAR 0.22MF 10%	100V
C24	1-124-963-11	ELECT 33MF 20%	16V
C25	1-106-375-12	MYLAR 0.022MF 10%	250V
C26	1-106-383-00	MYLAR 0.047MF 10%	100V
C27	1-124-499-11	ELECT 1MF 20%	50V
C29	1-124-499-11	ELECT 1MF 20%	50V
C30	1-124-499-11	ELECT 1MF 20%	50V
C31	1-106-367-00	MYLAR 0.01MF 10%	400V
C32	1-130-479-00	MYLAR 0.0047MF 5%	50V
C34	1-106-228-00	MYLAR 0.22MF 10%	100V
C35	1-124-477-11	ELECT 47MF 20%	16V
C36	1-124-477-11	ELECT 47MF 20%	16V
C37	1-124-927-11	ELECT 4.7MF 20%	50V
C38	1-124-927-11	ELECT 4.7MF 20%	50V
C39	1-124-963-11	ELECT 33MF 20%	16V
C40	1-124-963-11	ELECT 33MF 20%	16V
C43	1-124-443-00	ELECT 100MF 20%	10V
C44	1-102-816-00	CERAMIC 120PF 5%	50V
C50	1-101-003-00	CERAMIC 0.0047MF	50V
C51	1-123-875-11	ELECT 10MF 20%	50V
C53	1-124-477-11	ELECT 47MF 20%	16V
C54	1-101-003-00	CERAMIC 0.0047MF	50V
C55	1-123-875-11	ELECT 10MF 20%	50V
C69	1-124-499-11	ELECT 1MF 20%	50V
C70	1-130-475-00	MYLAR 0.0022MF 10%	50V
C71	1-102-116-00	CERAMIC 680PF 10%	50V
C75	1-124-477-11	ELECT 47MF 20%	16V
C76	1-101-880-00	CERAMIC 47PF 10%	50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CNA01	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA02	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA03	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNA04	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
		<CERAMIC TRAP>	
CT01	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
		<DIODE>	
D02	8-719-000-06	DIODE MC921	
D05	8-719-100-35	DIODE RD5.6ES-B2	
D06	8-719-911-19	DIODE 1SS119	
		<IC>	
IC01	8-759-979-61	IC SAB3035	
IC03	8-759-979-62	IC PCF8574	
IC04	8-759-208-08	IC TC4052BPHB	
		<COIL>	
L01	1-410-478-11	INDUCTOR 47UH	
L02	1-410-470-11	INDUCTOR 10UH	
L03	1-410-478-11	INDUCTOR 47UH	
L04	1-410-478-11	INDUCTOR 47UH	
L08	1-408-411-00	INDUCTOR 15UH	
L09	1-410-470-11	INDUCTOR 10UH	
		<TRANSISTOR>	
Q03	8-729-900-89	TRANSISTOR DTC144ES	
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q05	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q06	8-729-115-30	TRANSISTOR 2SK105A-30	
Q07	8-729-900-89	TRANSISTOR DTC144ES	
Q08	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q11	8-729-900-89	TRANSISTOR DTC144ES	
Q12	8-729-900-89	TRANSISTOR DTC144ES	
Q13	8-729-900-89	TRANSISTOR DTC144ES	
Q14	8-729-900-89	TRANSISTOR DTC144ES	
Q15	8-729-900-65	TRANSISTOR DTA144ES	
Q16	8-729-900-65	TRANSISTOR DTA144ES	
Q17	8-729-900-65	TRANSISTOR DTA144ES	
Q18	8-729-900-65	TRANSISTOR DTA144ES	
Q24	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q25	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q26	8-729-900-89	TRANSISTOR DTC144ES	
Q27	8-729-900-89	TRANSISTOR DTC144ES	
Q28	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q35	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q36	8-729-900-89	TRANSISTOR DTC144ES	
Q37	8-729-900-89	TRANSISTOR DTC144ES	
Q38	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R01	1-249-417-11	CARBON 1K 5% 1/4W	
R02	1-249-429-11	CARBON 10K 5% 1/4W	
R03	1-249-427-11	CARBON 6.8K 5% 1/4W	
R04	1-249-429-11	CARBON 10K 5% 1/4W	
R05	1-249-429-11	CARBON 10K 5% 1/4W	
R07	1-247-725-11	CARBON 10K 5% 1/4W	
R08	1-249-429-11	CARBON 10K 5% 1/4W	
R09	1-249-418-11	CARBON 1.2K 5% 1/4W	
R13	1-249-419-11	CARBON 1.5K 5% 1/4W	
R14	1-249-417-11	CARBON 1K 5% 1/4W	
R15	1-249-431-11	CARBON 15K 5% 1/4W	
R16	1-249-429-11	CARBON 10K 5% 1/4W	
R26	1-249-417-11	CARBON 1K 5% 1/4W	
R27	1-249-410-11	CARBON 270 5% 1/4W	
R28	1-249-423-11	CARBON 3.3K 5% 1/4W	
R29	1-249-437-11	CARBON 47K 5% 1/4W	
R32	1-249-441-11	CARBON 100K 5% 1/4W	
R34	1-249-405-11	CARBON 100 5% 1/4W	
R36	1-249-417-11	CARBON 1K 5% 1/4W	
R51	1-249-435-11	CARBON 33K 5% 1/4W	
R52	1-249-435-11	CARBON 33K 5% 1/4W	
R53	1-249-435-11	CARBON 33K 5% 1/4W	
R54	1-249-435-11	CARBON 33K 5% 1/4W	
R55	1-249-429-11	CARBON 10K 5% 1/4W	
R56	1-249-431-11	CARBON 15K 5% 1/4W	
R58	1-249-441-11	CARBON 100K 5% 1/4W	
R59	1-249-441-11	CARBON 100K 5% 1/4W	
R60	1-249-437-11	CARBON 47K 5% 1/4W	
R61	1-249-437-11	CARBON 47K 5% 1/4W	
R63	1-249-425-11	CARBON 4.7K 5% 1/4W	
R64	1-249-437-11	CARBON 47K 5% 1/4W	
R65	1-249-437-11	CARBON 47K 5% 1/4W	
R67	1-249-425-11	CARBON 4.7K 5% 1/4W	
R68	1-249-441-11	CARBON 100K 5% 1/4W	
R71	1-249-429-11	CARBON 10K 5% 1/4W	
R74	1-249-426-11	CARBON 5.6K 5% 1/4W	
R75	1-249-417-11	CARBON 1K 5% 1/4W	
R82	1-249-433-11	CARBON 22K 5% 1/4W	
R85	1-249-423-11	CARBON 3.3K 5% 1/4W	
R86	1-249-423-11	CARBON 3.3K 5% 1/4W	
R87	1-249-427-11	CARBON 6.8K 5% 1/4W	
R88	1-249-411-11	CARBON 330 5% 1/4W	
R89	1-247-891-00	CARBON 330K 5% 1/4W	
R90	1-249-440-11	CARBON 82K 5% 1/4W	
R91	1-249-429-11	CARBON 10K 5% 1/4W	
R92	1-249-421-11	CARBON 2.2K 5% 1/4W	
R93	1-249-431-11	CARBON 15K 5% 1/4W	
R94	1-249-425-11	CARBON 4.7K 5% 1/4W	
R96	1-249-433-11	CARBON 22K 5% 1/4W	
R98	1-249-441-11	CARBON 100K 5% 1/4W	
R103	1-249-441-11	CARBON 100K 5% 1/4W	
		<TUNER>	
TU01	⚠ 1-465-109-11	TUNER, ET (UV-618)	
		<CRYSTAL>	
X01	1-577-293-11	VIBRATOR, CRYSTAL	
		**********	
	*A-1330-914-A	C BOARD, COMPLETE	
		**********	
	*4-379-160-01	COVER (REAR LID), CV	
	*4-379-167-01	COVER (MAIN), CV	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<CAPACITOR>			
C703	1-102-980-00	CERAMIC	270PF	5%	50V
C704	1-102-116-00	CERAMIC	680PF	10%	50V
C705	1-102-978-00	CERAMIC	220PF	5%	50V
C706	1-102-116-00	CERAMIC	680PF	10%	50V
C707	1-162-116-00	CERAMIC	680PF	10%	2KV
C708	1-162-114-00	CERAMIC	0.0047MF		2KV
C709	1-102-116-00	CERAMIC	680PF	10%	50V
C710	1-123-947-00	ELECT	10MF	20%	250V
C711	1-101-888-00	CERAMIC	68PF	5%	50V
C712	1-102-980-00	CERAMIC	270PF	5%	50V
C714	1-126-103-11	ELECT	470MF	20%	16V
C716	1-162-622-11	CERAMIC	330PF	10%	400V
C717	1-102-114-00	CERAMIC	470PF	10%	50V
C718	1-102-114-00	CERAMIC	470PF	10%	50V
C719	1-102-114-00	CERAMIC	470PF	10%	50V
C721	1-124-915-11	ELECT	10MF	20%	63V
		<CONNECTOR>			
CNC71	*1-506-348-XX	PIN, CONNECTOR 3P			
CNC72	*1-564-509-11	PLUG, CONNECTOR 6P			
CNC81	*1-564-506-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D701	8-719-110-14	DIODE RD9.1ES-B3			
D702	8-719-911-19	DIODE 1SS119			
D703	8-719-911-19	DIODE 1SS119			
D704	8-719-911-19	DIODE 1SS119			
D705	8-719-911-19	DIODE 1SS119			
D706	8-719-911-19	DIODE 1SS119			
D707	8-719-911-19	DIODE 1SS119			
D708	8-719-911-19	DIODE 1SS119			
D709	8-719-911-19	DIODE 1SS119			
D710	8-719-911-19	DIODE 1SS119			
D711	8-719-925-06	DIODE ERC25-06S			
D713	8-719-911-19	DIODE 1SS119			
		<JACK>			
J701	1-526-798-51	SOCKET, PICTURE TUBE			
		<COIL>			
L704	1-410-476-11	INDUCTOR	33UH		
		<TRANSISTOR>			
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q703	8-729-326-11	TRANSISTOR 2SC2611			
Q704	8-729-200-17	TRANSISTOR 2SA1091			
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q706	8-729-326-11	TRANSISTOR 2SC2611			
Q707	8-729-200-17	TRANSISTOR 2SA1091			
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q709	8-729-326-11	TRANSISTOR 2SC2611			
Q710	8-729-200-17	TRANSISTOR 2SA1091			
		<RESISTOR>			
R704	1-216-486-00	METAL OXIDE	8.2K	5%	3W F
R705	1-202-824-00	SOLID	3.3K	10%	1/2W
R706	1-249-409-11	CARBON	220	5%	1/4W
R707	1-247-706-11	CARBON	330	5%	1/4W
R708	1-247-696-11	CARBON	47	5%	1/4W
R709	1-202-844-00	SOLID	330K	10%	1/2W
R710	1-215-453-00	METAL	22K	1%	1/6W
R712	1-249-417-11	CARBON	1K	5%	1/4W
R713	1-215-461-00	METAL	47K	1%	1/6W
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W F
R715	1-202-824-00	SOLID	3.3K	10%	1/2W
R716	1-247-704-11	CARBON	220	5%	1/4W
R717	1-247-710-11	CARBON	560	5%	1/4W
R718	1-202-814-11	SOLID	33K	10%	1/2W
R719	1-247-696-11	CARBON	47	5%	1/4W
R720	1-249-423-11	CARBON	3.3K	5%	1/4W
R721	1-202-842-11	SOLID	220K	10%	1/2W
R722	1-202-848-00	SOLID	680K	10%	1/2W
R723	1-249-417-11	CARBON	1K	5%	1/4W
R724	1-202-846-00	SOLID	470K	10%	1/2W
R725	1-202-838-00	SOLID	100K	10%	1/2W
R726	1-202-824-00	SOLID	3.3K	10%	1/2W
R727	1-249-409-11	CARBON	220	5%	1/4W
R728	1-216-347-11	METAL OXIDE	0.68	5%	1W F
R729	1-249-415-11	CARBON	680	5%	1/4W
R730	1-249-401-11	CARBON	47	5%	1/4W
R731	1-249-423-11	CARBON	3.3K	5%	1/4W
R732	1-249-415-11	CARBON	680	5%	1/4W
R733	1-247-711-11	CARBON	680	5%	1/4W
R734	1-249-405-11	CARBON	100	5%	1/4W
R735	1-215-471-00	METAL	120K	1%	1/6W
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W F
R737	1-215-469-00	METAL	100K	1%	1/6W
R738	1-202-549-00	SOLID	100	10%	1/2W
R739	1-202-837-00	SOLID	82K	10%	1/2W
R739A	1-249-417-11	CARBON	1K	5%	1/4W
R740	1-202-846-00	SOLID	470K	10%	1/2W
		<VARIABLE RESISTOR>			
RV701	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M			
RV702 ⚠	1-230-619-11	RES, ADJ, METAL GLAZE 110M			
RV703	1-228-991-00	RES, ADJ, CARBON 2.2K			
RV704	1-228-991-00	RES, ADJ, CARBON 2.2K			

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*A-1345-814-A D BOARD, COMPLETE
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		<CAPACITOR>			
C501	1-124-927-11	ELECT	4.7MF	20%	50V
C502	1-124-927-11	ELECT	4.7MF	20%	50V
C503	1-106-371-00	MYLAR	0.015MF	10%	100V
C504	1-101-361-00	CERAMIC	150PF	5%	50V
C505	1-130-473-00	MYLAR	0.0015MF	5%	50V
C506	1-106-375-12	MYLAR	0.022MF	10%	200V
C507	1-136-171-00	FILM	0.33MF	5%	50V
C508	1-106-375-12	MYLAR	0.022MF	10%	200V
C509	1-106-220-00	MYLAR	0.1MF	10%	100V
C510	1-161-959-00	CERAMIC	22PF	10%	500V
C511	1-106-355-12	MYLAR	0.0033MF	10%	100V
C512	1-106-220-00	MYLAR	0.1MF	10%	100V
C513	1-106-343-00	MYLAR	0.001MF	10%	100V

D

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C514	1-106-228-00	MYLAR	0.22MF	10%	100V
C515	1-124-499-11	ELECT	1MF	20%	50V
C516	1-106-343-00	MYLAR	0.001MF	10%	100V
C517	1-124-477-11	ELECT	47MF	20%	16V
C518	1-124-902-00	ELECT	0.47MF	20%	50V
C519	1-136-173-00	FILM	0.47MF	5%	50V
C520	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C521	1-106-220-00	MYLAR	0.1MF	10%	100V
C522	1-126-105-11	ELECT	1000MF	20%	35V
C523	1-106-343-00	MYLAR	0.001MF	10%	100V
C524	1-106-355-12	MYLAR	0.0033MF	10%	100V
C525	1-102-973-00	CERAMIC	100PF	5%	50V
C527	1-106-220-00	MYLAR	0.1MF	10%	100V
C531	1-124-190-00	ELECT	680MF	10%	25V
C532	1-124-122-11	ELECT	100MF	20%	50V
C533	1-106-216-00	MYLAR	0.068MF	10%	100V
C534	1-124-120-11	ELECT	220MF	20%	16V
C536	1-131-365-00	TANTALUM	10MF	10%	16V
C537	1-124-499-11	ELECT	1MF	20%	50V
C538	1-106-343-00	MYLAR	0.001MF	10%	100V
C539	1-102-820-00	CERAMIC	330PF	5%	50V
C591	1-123-875-11	ELECT	10MF	20%	50V
C592	1-124-477-11	ELECT	47MF	20%	16V
C593	1-102-820-00	CERAMIC	330PF	5%	50V
C594	1-102-231-11	CERAMIC	47PF	10%	500V
C801	1-126-105-11	ELECT	1000MF	20%	35V
C802	1-102-228-00	CERAMIC	470PF	10%	500V
C804	1-123-948-00	ELECT	22MF	20%	250V
C805	1-162-114-00	CERAMIC	0.0047MF		2KV
C806	1-106-387-00	MYLAR	0.068MF	10%	200V
C807	1-106-395-00	MYLAR	0.15MF	10%	200V
C810	1-124-494-00	ELECT	33MF		160V
C811	1-136-128-00	FILM	1.2MF	5%	400V
C812	1-123-946-00	ELECT	4.7MF	20%	250V
C813	1-102-212-00	CERAMIC	820PF	10%	500V
C814 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C815	1-136-126-00	FILM	0.82MF	5%	400V
C817	1-136-591-11	FILM	0.017MF	3%	1.4KV
C818	1-136-759-11	FILM	0.039MF	10%	630V
C819 ⚠	1-162-116-51	CERAMIC	680PF	10%	2KV
C820	1-106-365-00	MYLAR	0.0082MF	99%	200V
C821 ⚠	1-161-731-11	CERAMIC	0.001MF	10%	2KV
C822	1-102-114-00	CERAMIC	470PF	10%	50V
C823	1-106-359-00	MYLAR	0.0047MF	10%	200V
C824	1-102-212-00	CERAMIC	820PF	10%	500V
C828	1-106-383-00	MYLAR	0.047MF	10%	100V
C829	1-106-379-12	MYLAR	0.033MF	10%	200V
C849	1-102-112-00	CERAMIC	330PF	10%	50V
C850	1-102-212-00	CERAMIC	820PF	10%	500V
C851	1-126-105-11	ELECT	1000MF	20%	35V
C852	1-102-002-00	CERAMIC	680PF	10%	500V
C854	1-124-443-00	ELECT	100MF	20%	6.3V
C855	1-124-499-11	ELECT	1MF	20%	50V
C860	1-161-830-00	CERAMIC	0.0047MF		500V
C1501	1-123-875-11	ELECT	10MF	20%	50V
C1502	1-123-875-11	ELECT	10MF	20%	50V
C1504	1-124-910-11	ELECT	47MF	20%	50V
C1505	1-106-383-00	MYLAR	0.047MF	10%	100V
C1507	1-106-355-12	MYLAR	0.0033MF	10%	100V
C1508	1-123-875-11	ELECT	10MF	20%	50V
C1509	1-124-499-11	ELECT	1MF	20%	50V
C1511	1-123-875-11	ELECT	10MF	20%	50V
C1512	1-106-367-00	MYLAR	0.01MF	10%	100V
C1513	1-102-963-00	CERAMIC	33PF	5%	50V
C1520	1-106-367-00	MYLAR	0.01MF	10%	100V
C1551	1-124-902-00	ELECT	0.47MF	20%	50V
C1552	1-124-122-11	ELECT	100MF	20%	50V
C1630	1-124-463-00	ELECT	0.1MF	20%	50V
C1631	1-124-187-11	ELECT	22MF	20%	50V
C5501	1-124-499-11	ELECT	1MF	20%	50V
C5502	1-124-119-00	ELECT	330MF	20%	16V

<FILTER>

CF501	1-567-888-11	OSCILLATOR, CERAMIC	

<CONNECTOR>

CND20	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
CND21	*1-564-104-00	PIN, CONNECTOR 3P	
CND22	*1-564-514-11	PLUG, CONNECTOR 11P	
CND23	*1-564-506-11	PLUG, CONNECTOR 3P	
CND81	*1-564-506-11	PLUG, CONNECTOR 3P	
CND83	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P	
CND87	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CND801	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	

<DIODE>

D501	8-719-911-19	DIODE 1SS119
D502	8-719-200-02	DIODE 10E2
D504	8-719-911-55	DIODE U05G
D506	8-719-000-12	DIODE MC931
D508	8-719-911-19	DIODE 1SS119
D509	8-719-911-19	DIODE 1SS119
D511	8-719-911-55	DIODE U05G
D512	8-719-911-55	DIODE U05G
D513	8-719-109-81	DIODE RD4.7ES-B2
D591	8-719-911-19	DIODE 1SS119
D592	8-719-911-19	DIODE 1SS119
D593	8-719-911-19	DIODE 1SS119
D801	8-719-925-06	DIODE ERC25-06S
D802	8-719-925-06	DIODE ERC25-06S
D803	8-719-300-65	DIODE ES1F
D804	8-719-911-55	DIODE U05G
D805	8-719-911-55	DIODE U05G
D806	8-719-945-80	DIODE ERC06-15S
D807	8-719-945-80	DIODE ERC06-15S
D808	8-719-900-26	DIODE ERD29-08J
D809	8-719-911-19	DIODE 1SS119
D850	8-719-901-58	DIODE RGP15J
D1501	8-719-925-06	DIODE ERC25-06S
D1502	8-719-911-19	DIODE 1SS119
D1503	8-719-911-19	DIODE 1SS119
D1504	8-719-911-19	DIODE 1SS119
D1505	8-719-000-12	DIODE MC931
D1550	8-719-911-19	DIODE 1SS119
D1552	8-719-925-06	DIODE ERC25-06S
D1553	8-719-911-19	DIODE 1SS119

<EYELET>

EY1	*4-341-752-01	EYELET
EY2	*4-341-752-01	EYELET
EY3	*4-341-752-01	EYELET
EY4	*4-341-752-01	EYELET
EY5	*4-341-751-01	EYELET

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
EY6	*4-341-751-01	EYELET	
EY7	*4-341-751-01	EYELET	
EY8	*4-341-751-01	EYELET	
EY9	*4-341-751-01	EYELET	
EY10	*4-341-751-01	EYELET	
EY12	*4-341-752-01	EYELET	
EY18	*4-341-751-01	EYELET	
EY19	*4-341-751-01	EYELET	
EY20	*4-341-752-01	EYELET	
EY21	*4-341-752-01	EYELET	
EY23	*4-341-752-01	EYELET	
EY24	*4-341-752-01	EYELET	
EY25	*4-341-751-01	EYELET	
EY26	*4-341-751-01	EYELET	
EY27	*4-341-751-01	EYELET	
		<IC>	
IC501	8-759-970-73	IC TEA2028B	
IC502	8-759-944-57	IC TDA8170	
IC503	8-749-920-60	IC STR90120	
IC1501	8-759-942-16	IC TEA2031A	
		<COIL>	
L501	1-408-225-00	INDUCTOR 3.3UH	
L801	1-459-111-00	COIL, DRAM CORE (CDI)	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-237-00	INDUCTOR 3.3MMH	
L805	1-459-780-13	COIL, HORIZONTAL LINEARITY	
L806	1-459-111-00	COIL, DRAM CORE (CDI)	
L809	*1-420-872-00	COIL, AIR CORE	
L811	1-459-104-00	COIL, DUST CORE	
L812	1-408-698-00	INDUCTOR 8.2UH	
L850	1-408-225-00	INDUCTOR 3.3UH	
		<NEON LAMP>	
NL801⚠	1-519-237-13	LAMP, NEON	
		<TRANSISTOR>	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-177-42	TRANSISTOR 2SD774-2	
Q506	8-729-177-42	TRANSISTOR 2SD774-2	
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q515	8-729-900-80	TRANSISTOR DTC114ES	
Q591	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q598	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-305-01	TRANSISTOR 2SD1941-07	
	*4-378-214-01	HOLDER, TR; Q804	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q806	8-729-122-12	TRANSISTOR 2SA1221-L	
Q807	8-729-107-53	TRANSISTOR 2SC2275-A	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1552	8-729-208-72	TRANSISTOR 2SC3298A-O	
Q1608	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1609	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1613	8-729-119-76	TRANSISTOR 2SA1175-HFE	

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
R500	1-247-897-11	CARBON	560K	5%	1/4W	
R501	1-247-708-11	CARBON	470	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W	
R503	1-249-410-11	CARBON	270	5%	1/4W	
R504	1-214-735-00	METAL	1.8K	1%	1/4W	
R505	1-249-460-11	CARBON	15K	5%	1/4W	
R506	1-249-428-11	CARBON	8.2K	5%	1/4W	
R509	1-249-424-11	CARBON	3.9K	5%	1/4W	
R510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R511	1-247-719-11	CARBON	3.3K	5%	1/4W	
R513	1-249-425-11	CARBON	4.7K	5%	1/4W	
R514	1-249-409-11	CARBON	220	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W	
R516	1-249-408-11	CARBON	180	5%	1/4W	
R517	1-247-725-11	CARBON	10K	5%	1/4W	
R518	1-249-437-11	CARBON	47K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R520	1-249-411-11	CARBON	330	5%	1/4W	
R521	1-247-700-11	CARBON	100	5%	1/4W	
R524	1-249-421-11	CARBON	2.2K	5%	1/4W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	
R526	1-247-704-11	CARBON	220	5%	1/4W	F
R527	1-249-460-11	CARBON	15K	5%	1/4W	
R530	1-249-448-11	CARBON	1.2	5%	1/4W	F
R531	1-247-881-00	CARBON	120K	5%	1/4W	
R532	1-247-713-11	CARBON	1K	5%	1/4W	
R534	1-246-543-00	CARBON	820K	5%	1/4W	
R535	1-249-751-11	CARBON	3.3M	5%	1/4W	
R536	1-249-749-00	CARBON	2.2M	5%	1/4W	
R537	1-249-463-11	CARBON	27K	5%	1/4W	
R538	1-249-469-11	CARBON	100K	5%	1/4W	
R539	1-247-883-00	CARBON	150K	5%	1/4W	
R541	1-249-438-11	CARBON	56K	5%	1/4W	
R542	1-249-429-11	CARBON	10K	5%	1/4W	
R543	1-249-451-11	CARBON	2.2	5%	1/4W	
R544	1-247-745-11	CARBON	330	5%	1/2W	
R545	1-249-462-11	CARBON	22K	5%	1/4W	
R546	1-249-434-11	CARBON	27K	5%	1/4W	
R547	1-249-423-11	CARBON	3.3K	5%	1/4W	
R548	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-215-890-11	METAL OXIDE	470	5%	2W	F
R550	1-249-440-11	CARBON	82K	5%	1/4W	
R551	1-249-749-00	CARBON	2.2M	5%	1/4W	
R552	1-216-433-00	METAL OXIDE	1.2K	5%	1W	F
R553	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-749-00	CARBON	2.2M	5%	1/4W	
R556	1-249-405-11	CARBON	100	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R558	1-247-895-00	CARBON	470K	5%	1/4W	
R559	1-249-427-11	CARBON	6.8K	5%	1/4W	
R560	1-249-411-11	CARBON	330	5%	1/4W	
R563	1-249-437-11	CARBON	47K	5%	1/4W	
R564	1-249-429-11	CARBON	10K	5%	1/4W	
R565	1-249-426-11	CARBON	5.6K	5%	1/4W	
R566	1-249-435-11	CARBON	33K	5%	1/4W	
R567	1-249-422-11	CARBON	2.7K	5%	1/4W	
R569	1-249-405-11	CARBON	100	5%	1/4W	
R570	1-249-435-11	CARBON	33K	5%	1/4W	
R591	1-249-427-11	CARBON	6.8K	5%	1/4W	
R592	1-249-429-11	CARBON	10K	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R594	1-249-424-11	CARBON	3.9K	5%	1/4W	
R595	1-249-417-11	CARBON	1K	5%	1/4W	
R596	1-249-425-11	CARBON	4.7K	5%	1/4W	
R597	1-249-425-11	CARBON	4.7K	5%	1/4W	
R598	1-249-405-11	CARBON	100	5%	1/4W	
R599	1-249-405-11	CARBON	100	5%	1/4W	
R670	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R671	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R672	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R673	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R674	1-216-488-11	METAL OXIDE	18K	5%	3W	F
R802	1-249-474-11	CARBON	1	5%	1/2W	F
R805	1-249-474-11	CARBON	1	5%	1/2W	F
R806	1-249-467-11	CARBON	68K	5%	1/4W	
R807	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R809	1-202-823-11	SOLID	2.7K	10%	1/2W	
R812	1-249-494-11	CARBON	68K	5%	1/2W	
R815	1-215-884-11	METAL OXIDE	47	5%	2W	F
R816	1-215-868-00	METAL OXIDE	680	5%	1W	F
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F
R825	1-216-341-11	METAL OXIDE	0.22	5%	1W	F
R831	1-249-443-11	CARBON	0.47	5%	1/4W	F
R832	1-247-692-11	CARBON	22	5%	1/4W	F
R833	1-216-379-11	METAL OXIDE	6.8	5%	2W	F
R834	1-249-482-11	CARBON	4.7	5%	1/2W	F
R835	1-215-884-11	METAL OXIDE	47	5%	2W	F
R836	1-215-884-11	METAL OXIDE	47	5%	2W	F
R837	1-215-911-11	METAL OXIDE	100	5%	3W	F
R839	1-249-429-11	CARBON	10K	5%	1/4W	
R840	1-249-496-11	CARBON	100K	5%	1/2W	
R841	1-247-713-11	CARBON	1K	5%	1/4W	
R842	1-247-713-11	CARBON	1K	5%	1/4W	
R843	1-216-389-11	METAL OXIDE	1	5%	3W	F
R844	1-215-421-00	METAL	1K	1%	1/6W	
R845	1-214-913-00	METAL	100K	1%	1/2W	
R846	1-249-496-11	CARBON	100K	5%	1/2W	
R847	1-249-429-11	CARBON	10K	5%	1/4W	
R848	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R849	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R1501	1-249-462-11	CARBON	22K	5%	1/4W	
R1502	1-249-434-11	CARBON	27K	5%	1/4W	
R1503	1-247-895-00	CARBON	470K	5%	1/4W	
R1504	1-249-435-11	CARBON	33K	5%	1/4W	
R1505	1-249-433-11	CARBON	22K	5%	1/4W	
R1506	1-247-895-00	CARBON	470K	5%	1/4W	
R1509	1-247-887-00	CARBON	220K	5%	1/4W	
R1510	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1511	1-249-417-11	CARBON	1K	5%	1/4W	
R1512	1-247-725-11	CARBON	10K	5%	1/4W	
R1513	1-249-438-11	CARBON	56K	5%	1/4W	
R1514	1-249-417-11	CARBON	1K	5%	1/4W	
R1516	1-249-432-11	CARBON	18K	5%	1/4W	
R1517	1-249-411-11	CARBON	330	5%	1/4W	
R1518	1-249-429-11	CARBON	10K	5%	1/4W	
R1519	1-247-883-00	CARBON	150K	5%	1/4W	
R1520	1-247-899-11	CARBON	680K	5%	1/4W	
R1521	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1552	1-249-429-11	CARBON	10K	5%	1/4W	
R1553	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R1554	1-249-407-11	CARBON	150	5%	1/4W	
R1602	1-247-722-11	CARBON	5.6K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1636	1-249-437-11	CARBON	47K	5%	1/4W	
R1637	1-249-437-11	CARBON	47K	5%	1/4W	
R1638	1-249-413-11	CARBON	470	5%	1/4W	
R1639	1-249-441-11	CARBON	100K	5%	1/4W	
R1643	1-247-721-11	CARBON	4.7K	5%	1/4W	
R1664	1-247-718-11	CARBON	2.7K	5%	1/4W	
R5113	1-249-468-11	CARBON	82K	5%	1/4W	
R5501	1-247-725-11	CARBON	10K	5%	1/4W	
R5502	1-249-417-11	CARBON	1K	5%	1/4W	
R5503	1-249-429-11	CARBON	10K	5%	1/4W	
R5504	1-249-430-11	CARBON	12K	5%	1/4W	
R5508	1-247-700-11	CARBON	100	5%	1/4W	
R5509	1-249-425-11	CARBON	4.7K	5%	1/4W	
R5511	1-249-429-11	CARBON	10K	5%	1/4W	
R5512	1-249-460-11	CARBON	15K	5%	1/4W	

<VARIABLE RESISTOR>

RV502	1-238-016-11	RES, ADJ, CARBON 10K
RV1501	1-238-023-11	RES, ADJ, CARBON 470K
RV1502	1-238-016-11	RES, ADJ, CARBON 10K
RV1503	1-238-017-11	RES, ADJ, CARBON 22K
RV1504	1-238-012-11	RES, ADJ, CARBON 1K
RV1505	1-238-023-11	RES, ADJ, CARBON 470K
RV1506	1-238-017-11	RES, ADJ, CARBON 22K
RV1507	1-238-009-11	RES, ADJ, CARBON 220
RV1508	1-238-015-11	RES, ADJ, CARBON 4.7K
RV1509	1-238-023-11	RES, ADJ, CARBON 470K

<SPARK GAP>

SG801	1-519-063-XX	DISCHARGING GAP

<TRANSFORMER>

T801	1-437-090-00	HDT
T802 ⚠	1-439-418-31	TRANSFORMER ASSY, FLYBACK
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)
T805	1-421-794-11	TRANSFORMER, FERRITE (PMT)

****

*A-1347-036-A V BOARD, COMPLETE
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<CAPACITOR>

C01	1-126-101-11	ELECT	100MF	20%	16V
C02	1-124-120-11	ELECT	220MF	20%	16V
C03	1-124-119-00	ELECT	330MF	20%	16V
C04	1-124-477-11	ELECT	47MF	20%	16V
C05	1-126-101-11	ELECT	100MF	20%	16V
C06	1-124-120-11	ELECT	220MF	20%	16V
C07	1-136-177-00	FILM	1MF	5%	50V
C08	1-102-951-00	CERAMIC	15PF	5%	50V
C09	1-102-074-00	CERAMIC	0.001MF	10%	50V
C10	1-102-824-00	CERAMIC	470PF	5%	50V
C11	1-106-375-12	MYLAR	0.022MF	10%	100V
C12	1-102-980-00	CERAMIC	270PF	5%	50V
C13	1-102-973-00	CERAMIC	100PF	5%	50V
C14	1-102-951-00	CERAMIC	15PF	5%	50V
C15	1-102-961-00	CERAMIC	27PF	5%	50V
C16	1-106-367-00	MYLAR	0.01MF	10%	100V
C17	1-136-161-00	MYLAR	0.047MF	10%	50V
C18	1-102-953-00	CERAMIC	18PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C19	1-136-161-00	MYLAR	0.047MF	10%	50V	
C20	1-102-978-00	CERAMIC	220PF	5%	50V	
C21	1-136-163-00	MYLAR	0.068MF	10%	50V	
C24	1-126-101-11	ELECT	100MF	20%	16V	
C25	1-124-477-11	ELECT	47MF	20%	16V	
C27	1-102-820-00	CERAMIC	330PF	5%	50V	
C28	1-102-116-00	CERAMIC	680PF	10%	50V	
C29	1-124-927-11	ELECT	4.7MF	20%	50V	
C38	1-102-816-00	CERAMIC	120PF	5%	50V	
C51	1-136-165-00	MYLAR	0.1MF	10%	50V	
C52	1-136-165-00	MYLAR	0.1MF	10%	50V	
C53	1-136-165-00	MYLAR	0.1MF	10%	50V	
C54	1-136-165-00	MYLAR	0.1MF	10%	50V	
C55	1-136-165-00	MYLAR	0.1MF	10%	50V	
C56	1-136-165-00	MYLAR	0.1MF	10%	50V	
C57	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C58	1-102-074-00	CERAMIC	0.001MF	10%	50V	

<CONNECTOR>

CNV01	*1-564-506-11	PLUG, CONNECTOR 3P	
CNV02	*1-564-508-11	PLUG, CONNECTOR 5P	
CNV03	*1-564-509-11	PLUG, CONNECTOR 6P	
CNV04	*1-564-506-11	PLUG, CONNECTOR 3P	
CNV05	*1-564-505-11	PLUG, CONNECTOR 2P	

<NETWORK, RES, THICK FILM>

CP01	1-235-977-11	NETWORK, RES, THICK FILM	
CP02	1-235-977-11	NETWORK, RES, THICK FILM	

<TRIMMER>

CT01	1-141-245-00	TRIMMER, CERAMIC	

<DIODE>

D01	8-719-109-89	DIODE RD5.6ES-B2	
D02	8-719-110-36	DIODE RD13ES-B2	
D03	8-719-911-19	DIODE 1SS119	
D04	8-719-109-69	DIODE RD3.6ES-B2	

<IC>

IC01	8-759-972-41	IC MAB8461P-W136	
IC02	8-759-972-96	IC SAA5231-V6	
IC03	8-759-946-85	IC SAA5243E	
IC04	8-759-113-01	IC UPD4364CX-15L	

<COIL>

JW55	1-410-468-11	INDUCTOR	6.8UH
L01	1-408-411-00	INDUCTOR	15UH
L02	1-410-468-11	INDUCTOR	6.8UH
L03	1-410-468-11	INDUCTOR	6.8UH
L04	1-410-468-11	INDUCTOR	6.8UH
L05	1-410-468-11	INDUCTOR	6.8UH
L06	1-410-468-11	INDUCTOR	6.8UH

<TRANSISTOR>

Q01	8-729-808-76	TRANSISTOR 2SD1913SA	
Q02	8-729-177-42	TRANSISTOR 2SD774-3	
Q03	8-729-900-80	TRANSISTOR DTC114ES	
Q04	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q05	8-729-177-42	TRANSISTOR 2SD774-3	
Q06	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q07	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q09	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q10	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE	

<RESISTOR>

R01	1-215-867-00	METAL OXIDE	470	5%	1W	F
R02	1-249-425-11	CARBON	4.7K	5%	1/4W	
R04	1-215-867-00	METAL OXIDE	470	5%	1W	F
R05	1-247-700-11	CARBON	100	5%	1/4W	
R06	1-249-417-11	CARBON	1K	5%	1/4W	
R07	1-249-405-11	CARBON	100	5%	1/4W	
R08	1-249-411-11	CARBON	330	5%	1/4W	
R09	1-249-438-11	CARBON	56K	5%	1/4W	
R13	1-249-405-11	CARBON	100	5%	1/4W	
R14	1-249-405-11	CARBON	100	5%	1/4W	
R15	1-247-903-00	CARBON	1M	5%	1/4W	
R16	1-249-425-11	CARBON	4.7K	5%	1/4W	
R17	1-249-417-11	CARBON	1K	5%	1/4W	
R18	1-249-425-11	CARBON	4.7K	5%	1/4W	
R20	1-249-414-11	CARBON	560	5%	1/4W	
R27	1-249-408-11	CARBON	180	5%	1/4W	
R28	1-249-408-11	CARBON	180	5%	1/4W	
R29	1-249-408-11	CARBON	180	5%	1/4W	
R30	1-247-713-11	CARBON	1K	5%	1/4W	
R31	1-247-713-11	CARBON	1K	5%	1/4W	
R32	1-247-713-11	CARBON	1K	5%	1/4W	
R37	1-249-405-11	CARBON	100	5%	1/4W	
R38	1-249-416-11	CARBON	820	5%	1/4W	
R40	1-249-425-11	CARBON	4.7K	5%	1/4W	
R41	1-249-413-11	CARBON	470	5%	1/4W	
R43	1-249-420-11	CARBON	1.8K	5%	1/4W	
R45	1-247-713-11	CARBON	1K	5%	1/4W	
R47	1-247-699-11	CARBON	82	5%	1/4W	

<VARIABLE RESISTOR>

RV01	1-228-991-00	RES, ADJ, CARBON 2.2K
	*3-710-578-01	COVER, VOLUME, 6 MOLD; RV01

<CRYSTAL>

X01	1-527-734-00	VIBRATOR, CRYSTAL
X02	1-567-905-11	VIBRATOR, CRYSTAL
X03	1-567-686-11	OSCILLATOR, CERAMIC

****

*1-628-824-11 H3 BOARD
****

<CONNECTOR>

CNH03	*1-564-510-11	PLUG, CONNECTOR 7P

<DIODE>

D1	8-719-812-41	DIODE TLR124
	*4-364-023-00	HOLDER, LED; D1
D3	8-719-812-41	DIODE TLR124
	*4-364-023-00	HOLDER, LED; D3
D4	8-719-812-41	DIODE TLR124

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*4-364-023-00	HOLDER, LED; D4			
		<IC>			
IC1	8-741-138-70	IC BX-1387			
		**********			
	*A-1385-049-A	K BOARD, COMPLETE			
		**********			
	*4-377-007-01	CASE (UPPER LID), SHIELD			
	*4-377-009-01	CASE (MAIN), SHIELD			
		<CAPACITOR>			
C00A	1-101-005-00	CERAMIC	0.022MF		50V
C001	1-126-103-11	ELECT	470MF	20%	16V
C002	1-126-103-11	ELECT	470MF	20%	16V
C005	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C006	1-101-004-00	CERAMIC	0.01MF		50V
C007	1-102-953-00	CERAMIC	18PF	5%	50V
C008	1-102-961-00	CERAMIC	27PF	5%	50V
C009	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C010	1-102-980-00	CERAMIC	270PF	5%	50V
C011	1-106-383-00	MYLAR	0.047MF	10%	100V
C012	1-136-165-00	MYLAR	0.1MF	10%	50V
C013	1-101-361-00	CERAMIC	150PF	5%	50V
C014	1-126-101-11	ELECT	100MF	20%	16V
C015	1-101-004-00	CERAMIC	0.01MF		50V
C017	1-124-556-11	ELECT	2200MF	20%	16V
C018	1-126-101-11	ELECT	100MF	20%	16V
C020	1-124-637-11	ELECT	1000MF	20%	50V
C025	1-124-477-11	ELECT	47MF	20%	16V
C026	1-124-477-11	ELECT	47MF	20%	16V
C027	1-124-463-00	ELECT	0.1MF	20%	50V
C028	1-124-477-11	ELECT	47MF	20%	16V
C029	1-123-875-11	ELECT	10MF	20%	50V
C032	1-136-165-00	MYLAR	0.1MF	10%	50V
C061	1-101-004-00	CERAMIC	0.01MF		50V
C090	1-102-074-00	CERAMIC	0.001MF	10%	50V
C201	1-124-477-11	ELECT	47MF	20%	16V
C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-124-477-11	ELECT	47MF	20%	16V
C204	1-124-902-00	ELECT	0.47MF	20%	50V
C205	1-124-927-11	ELECT	4.7MF	20%	50V
C206	1-126-101-11	ELECT	100MF	20%	16V
C206	1-126-101-11	ELECT	100MF	20%	16V
C207	1-124-927-11	ELECT	4.7MF	20%	50V
C208	1-124-902-00	ELECT	0.47MF	20%	50V
C209	1-102-114-00	CERAMIC	470PF	10%	50V
C210	1-102-114-00	CERAMIC	470PF	10%	50V
C211	1-124-925-11	ELECT	2.2MF	20%	50V
C212	1-124-925-11	ELECT	2.2MF	20%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V
C214	1-106-363-00	MYLAR	0.0068MF	10%	100V
C215	1-124-119-00	ELECT	330MF	20%	16V
C217	1-106-363-00	MYLAR	0.0068MF	10%	100V
C218	1-106-375-12	MYLAR	0.022MF	10%	100V
C219	1-106-375-12	MYLAR	0.022MF	10%	100V
C220	1-106-355-12	MYLAR	0.0033MF	10%	100V
C221	1-106-355-12	MYLAR	0.0033MF	10%	100V
C222	1-106-375-12	MYLAR	0.022MF	10%	100V
C223	1-106-375-12	MYLAR	0.022MF	10%	100V
C224	1-106-367-00	MYLAR	0.01MF	10%	100V
C225	1-136-173-00	FILM	0.47MF	5%	50V
C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-106-375-12	MYLAR	0.022MF	10%	100V
C228	1-106-379-12	MYLAR	0.033MF	10%	100V
C229	1-106-371-00	MYLAR	0.015MF	10%	100V
C230	1-106-371-00	MYLAR	0.015MF	10%	100V
C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-123-875-11	ELECT	10MF	20%	50V
C234	1-102-114-00	CERAMIC	470PF	10%	50V
C237	1-102-114-00	CERAMIC	470PF	10%	50V
C239	1-124-902-00	ELECT	0.47MF	20%	50V
C240	1-124-927-11	ELECT	4.7MF	20%	50V
C241	1-124-927-11	ELECT	4.7MF	20%	50V
C242	1-102-963-00	CERAMIC	33PF	5%	50V
C243	1-106-359-00	MYLAR	0.0047MF	10%	100V
C244	1-106-343-00	MYLAR	0.001MF	10%	100V
C245	1-124-119-00	ELECT	330MF	20%	16V
C246	1-124-477-11	ELECT	47MF	20%	16V
C247	1-102-963-00	CERAMIC	33PF	5%	50V
C248	1-102-963-00	CERAMIC	33PF	5%	50V
C249	1-123-875-11	ELECT	10MF	20%	50V
C250	1-124-463-00	ELECT	0.1MF	20%	50V
C251	1-136-169-00	FILM	0.22MF	5%	50V
C252	1-123-875-11	ELECT	10MF	20%	50V
C253	1-124-607-11	ELECT	2200MF	20%	50V
C254	1-123-875-11	ELECT	10MF	20%	50V
C255	1-124-463-00	ELECT	0.1MF	20%	50V
C256	1-136-169-00	FILM	0.22MF	5%	50V
C257	1-123-875-11	ELECT	10MF	20%	50V
C258	1-124-607-11	ELECT	2200MF	20%	50V
C259	1-136-159-00	FILM	0.033MF	5%	50V
C260	1-136-159-00	FILM	0.033MF	5%	50V
C290	1-102-112-00	CERAMIC	330PF	10%	50V
C291	1-102-112-00	CERAMIC	330PF	10%	50V
		<CONNECTOR>			
CNK01	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
CNK02	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)			
CNK03	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P			
CNK04	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P			
CNK05	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P			
CNK06	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P			
CNK07	*1-564-507-11	PLUG, CONNECTOR 4P			
CNK08	*1-564-513-11	PLUG, CONNECTOR 10P			
CNK09	*1-564-514-11	PLUG, CONNECTOR 11P			
CNK11	*1-564-508-11	PLUG, CONNECTOR 5P			
CNK12	*1-564-506-11	PLUG, CONNECTOR 3P			
CNK16	*1-564-510-11	PLUG, CONNECTOR 7P			
CNK17	*1-564-510-11	PLUG, CONNECTOR 7P			
CNK18	*1-564-507-11	PLUG, CONNECTOR 4P			
CNK20	*1-564-512-11	PLUG, CONNECTOR 9P			
CNK22	*1-564-505-11	PLUG, CONNECTOR 2P			
CNK23	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
CNK24	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
		<DIODE>			
D002	8-719-109-89	DIODE RD5.6ES-B2			
D003	8-719-109-89	DIODE RD5.6ES-B2			
D004	8-719-911-19	DIODE 1SS119			
D005	8-719-911-19	DIODE 1SS119			
D006	8-719-911-19	DIODE 1SS119			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D007	8-719-911-19	DIODE 1SS119	
D011	8-719-109-71	DIODE RD3.9ES-B1	
D012	8-719-911-19	DIODE 1SS119	
D013	8-719-911-19	DIODE 1SS119	
D201	8-719-110-14	DIODE RD9.1ES-B3	
D202	8-719-110-14	DIODE RD9.1ES-B3	
D203	8-719-110-04	DIODE RD7.5ES-B3	
D204	8-719-110-04	DIODE RD7.5ES-B3	
D205	8-719-911-19	DIODE 1SS119	
D206	8-719-911-19	DIODE 1SS119	
D207	8-719-911-19	DIODE 1SS119	
D208	8-719-911-19	DIODE 1SS119	
D209	8-719-911-19	DIODE 1SS119	
		<IC>	
IC001	8-759-631-99	IC M37100M8-616SP	
IC003	8-759-972-43	IC PCD8582	
IC005	8-759-157-40	IC UPC574J	
IC201	8-759-013-17	IC TDA6200	
IC202	8-759-132-40	IC UPC324C	
IC203	8-759-922-40	IC LM1875T	
IC204	8-759-922-40	IC LM1875T	
		<COIL>	
L001	1-410-476-11	INDUCTOR 33UH	
		<TRANSISTOR>	
Q001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q003	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q004	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q005	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q006	8-729-808-76	TRANSISTOR 2SD1913SA-Q	
Q009	8-729-900-89	TRANSISTOR DTC144ES	
Q013	8-729-900-89	TRANSISTOR DTC144ES	
Q014	8-729-900-89	TRANSISTOR DTC144ES	
Q017	8-729-900-89	TRANSISTOR DTC144ES	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q204	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q205	8-729-900-89	TRANSISTOR DTC144ES	
Q206	8-729-115-30	TRANSISTOR 2SK105A-30	
Q207	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q208	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q209	8-729-900-89	TRANSISTOR DTC144ES	
Q220	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R001	1-249-429-11	CARBON 10K 5% 1/4W	
R003	1-249-421-11	CARBON 2.2K 5% 1/4W	
R004	1-249-421-11	CARBON 2.2K 5% 1/4W	
R005	1-249-421-11	CARBON 2.2K 5% 1/4W	
R006	1-249-421-11	CARBON 2.2K 5% 1/4W	
R007	1-249-421-11	CARBON 2.2K 5% 1/4W	
R008	1-249-421-11	CARBON 2.2K 5% 1/4W	
R009	1-249-421-11	CARBON 2.2K 5% 1/4W	
R010	1-249-425-11	CARBON 4.7K 5% 1/4W	
R011	1-247-704-11	CARBON 220 5% 1/4W	
R012	1-249-409-11	CARBON 220 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R013	1-247-713-11	CARBON 1K 5% 1/4W	
R014	1-247-713-11	CARBON 1K 5% 1/4W	
R015	1-247-713-11	CARBON 1K 5% 1/4W	
R016	1-247-713-11	CARBON 1K 5% 1/4W	
R017	1-249-409-11	CARBON 220 5% 1/4W	
R018	1-249-413-11	CARBON 470 5% 1/4W	
R019	1-249-431-11	CARBON 15K 5% 1/4W	
R020	1-249-421-11	CARBON 2.2K 5% 1/4W	
R024	1-249-437-11	CARBON 47K 5% 1/4W	
R025	1-249-437-11	CARBON 47K 5% 1/4W	
R026	1-249-405-11	CARBON 100 5% 1/4W	
R027	1-249-405-11	CARBON 100 5% 1/4W	
R028	1-249-417-11	CARBON 1K 5% 1/4W	
R029	1-249-417-11	CARBON 1K 5% 1/4W	
R030	1-249-417-11	CARBON 1K 5% 1/4W	
R031	1-249-429-11	CARBON 10K 5% 1/4W	
R032	1-249-433-11	CARBON 22K 5% 1/4W	
R033	1-249-429-11	CARBON 10K 5% 1/4W	
R034	1-249-417-11	CARBON 1K 5% 1/4W	
R035	1-249-429-11	CARBON 10K 5% 1/4W	
R039	1-249-409-11	CARBON 220 5% 1/4W	
R040	1-249-417-11	CARBON 1K 5% 1/4W	
R042	1-249-429-11	CARBON 10K 5% 1/4W	
R043	1-247-707-11	CARBON 390 5% 1/4W	
R044	1-247-707-11	CARBON 390 5% 1/4W	
R045	1-249-429-11	CARBON 10K 5% 1/4W	
R046	1-249-435-11	CARBON 33K 5% 1/4W	
R047	1-249-423-11	CARBON 3.3K 5% 1/4W	
R048	1-249-441-11	CARBON 100K 5% 1/4W	
R049	1-249-413-11	CARBON 470 5% 1/4W	
R050	1-249-417-11	CARBON 1K 5% 1/4W	
R051	1-249-419-11	CARBON 1.5K 5% 1/4W	
R052	1-249-460-11	CARBON 15K 5% 1/4W	
R053	1-249-429-11	CARBON 10K 5% 1/4W	
R054	1-249-411-11	CARBON 330 5% 1/4W	
R055	1-249-417-11	CARBON 1K 5% 1/4W	
R056	1-249-417-11	CARBON 1K 5% 1/4W	
R057	1-249-417-11	CARBON 1K 5% 1/4W	
R058	1-249-417-11	CARBON 1K 5% 1/4W	
R059	1-249-417-11	CARBON 1K 5% 1/4W	
R060	1-249-417-11	CARBON 1K 5% 1/4W	
R061	1-249-417-11	CARBON 1K 5% 1/4W	
R063	1-249-409-11	CARBON 220 5% 1/4W	
R064	1-249-429-11	CARBON 10K 5% 1/4W	
R065	1-249-429-11	CARBON 10K 5% 1/4W	
R070	1-249-413-11	CARBON 470 5% 1/4W	
R077	1-249-421-11	CARBON 2.2K 5% 1/4W	
R078	1-249-429-11	CARBON 10K 5% 1/4W	
R079	1-249-422-11	CARBON 2.7K 5% 1/4W	
R080	1-249-422-11	CARBON 2.7K 5% 1/4W	
R081	1-249-429-11	CARBON 10K 5% 1/4W	
R085	1-249-417-11	CARBON 1K 5% 1/4W	
R086	1-249-409-11	CARBON 220 5% 1/4W	
R090	1-249-429-11	CARBON 10K 5% 1/4W	
R093	1-247-721-11	CARBON 4.7K 5% 1/4W	
R093	1-249-424-11	CARBON 3.9K 5% 1/4W	
R095	1-249-425-11	CARBON 4.7K 5% 1/4W	
R201	1-249-441-11	CARBON 100K 5% 1/4W	
R202	1-249-425-11	CARBON 4.7K 5% 1/4W	
R203	1-249-441-11	CARBON 100K 5% 1/4W	
R204	1-249-435-11	CARBON 33K 5% 1/4W	
R205	1-249-435-11	CARBON 33K 5% 1/4W	
R206	1-249-423-11	CARBON 3.3K 5% 1/4W	
R207	1-249-423-11	CARBON 3.3K 5% 1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R209	1-249-433-11	CARBON	22K	5%	1/4W	
R210	1-249-431-11	CARBON	15K	5%	1/4W	
R211	1-249-441-11	CARBON	100K	5%	1/4W	
R212	1-249-433-11	CARBON	22K	5%	1/4W	
R213	1-249-431-11	CARBON	15K	5%	1/4W	
R214	1-247-704-11	CARBON	220	5%	1/4W	
R215	1-249-433-11	CARBON	22K	5%	1/4W	
R216	1-249-433-11	CARBON	22K	5%	1/4W	
R217	1-249-431-11	CARBON	15K	5%	1/4W	
R218	1-247-704-11	CARBON	220	5%	1/4W	
R219	1-249-429-11	CARBON	10K	5%	1/4W	
R220	1-249-425-11	CARBON	4.7K	5%	1/4W	
R221	1-249-423-11	CARBON	3.3K	5%	1/4W	
R222	1-249-439-11	CARBON	68K	5%	1/4W	
R223	1-249-413-11	CARBON	470	5%	1/4W	
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-417-11	CARBON	1K	5%	1/4W	
R226	1-249-417-11	CARBON	1K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-423-11	CARBON	3.3K	5%	1/4W	
R228	1-249-431-11	CARBON	15K	5%	1/4W	
R229	1-249-441-11	CARBON	100K	5%	1/4W	
R230	1-249-441-11	CARBON	100K	5%	1/4W	
R231	1-249-439-11	CARBON	68K	5%	1/4W	
R232	1-249-441-11	CARBON	100K	5%	1/4W	
R233	1-249-437-11	CARBON	47K	5%	1/4W	
R234	1-249-437-11	CARBON	47K	5%	1/4W	
R235	1-249-411-11	CARBON	330	5%	1/4W	
R240	1-249-405-11	CARBON	100	5%	1/4W	
R241	1-249-437-11	CARBON	47K	5%	1/4W	
R242	1-249-437-11	CARBON	47K	5%	1/4W	
R243	1-249-425-11	CARBON	4.7K	5%	1/4W	
R244	1-249-405-11	CARBON	100	5%	1/4W	
R245	1-249-437-11	CARBON	47K	5%	1/4W	
R246	1-249-437-11	CARBON	47K	5%	1/4W	
R247	1-249-425-11	CARBON	4.7K	5%	1/4W	
R248	1-249-433-11	CARBON	22K	5%	1/4W	
R249	1-249-433-11	CARBON	22K	5%	1/4W	
R250	1-249-429-11	CARBON	10K	5%	1/4W	
R251	1-247-895-00	CARBON	470K	5%	1/4W	
R252	1-249-433-11	CARBON	22K	5%	1/4W	
R253	1-249-433-11	CARBON	22K	5%	1/4W	
R254	1-249-433-11	CARBON	22K	5%	1/4W	
R255	1-249-433-11	CARBON	22K	5%	1/4W	
R257	1-249-433-11	CARBON	22K	5%	1/4W	
R258	1-249-433-11	CARBON	22K	5%	1/4W	
R259	1-249-429-11	CARBON	10K	5%	1/4W	
R260	1-249-429-11	CARBON	10K	5%	1/4W	
R261	1-249-433-11	CARBON	22K	5%	1/4W	
R262	1-249-433-11	CARBON	22K	5%	1/4W	
R263	1-249-425-11	CARBON	4.7K	5%	1/4W	
R264	1-249-433-11	CARBON	22K	5%	1/4W	
R265	1-249-441-11	CARBON	100K	5%	1/4W	
R266	1-249-441-11	CARBON	100K	5%	1/4W	
R267	1-247-725-11	CARBON	10K	5%	1/4W	
R268	1-249-423-11	CARBON	3.3K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
R271	1-249-433-11	CARBON	22K	5%	1/4W	
R272	1-249-433-11	CARBON	22K	5%	1/4W	
R273	1-249-462-11	CARBON	22K	5%	1/4W	
R274	1-249-381-11	CARBON	1	5%	1/4W	F
R276	1-249-429-11	CARBON	10K	5%	1/4W	
R277	1-247-891-00	CARBON	330K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R278	1-249-433-11	CARBON	22K	5%	1/4W	
R279	1-249-462-11	CARBON	22K	5%	1/4W	
R280	1-249-433-11	CARBON	22K	5%	1/4W	
R281	1-249-381-11	CARBON	1	5%	1/4W	F
R283	1-249-429-11	CARBON	10K	5%	1/4W	
R284	1-247-891-00	CARBON	330K	5%	1/4W	
R285	1-247-713-11	CARBON	1K	5%	1/4W	
R288	1-249-423-11	CARBON	3.3K	5%	1/4W	
R290	1-249-433-11	CARBON	22K	5%	1/4W	
R291	1-249-423-11	CARBON	3.3K	5%	1/4W	
R292	1-215-899-11	METAL OXIDE	15K	5%	2W	F
R295	1-249-433-11	CARBON	22K	5%	1/4W	
R654	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R655	1-215-924-00	METAL OXIDE	15K	5%	3W	F
JW248	1-247-713-11	CARBON	1K	5%	1/4W	

<CRYSTAL>

X001	1-567-686-11	OSCILLATOR, CERAMIC				

****

*A-1388-083-A J1 BOARD, COMPLETE
****

<CAPACITOR>

C1401	1-123-875-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-102-824-00	CERAMIC	470PF	5%	50V
C1404	1-124-902-00	ELECT	0.47MF	20%	50V
C1405	1-102-824-00	CERAMIC	470PF	5%	50V
C1406	1-124-902-00	ELECT	0.47MF	20%	50V
C1407	1-124-477-11	ELECT	47MF	20%	16V
C1408	1-126-101-11	ELECT	100MF	20%	16V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1410	1-123-621-71	ELECT	10MF	20%	25V
C1411	1-123-621-71	ELECT	10MF	20%	25V
C1412	1-124-963-11	ELECT	33MF	20%	16V
C1413	1-126-101-11	ELECT	100MF	20%	16V
C1414	1-123-621-71	ELECT	10MF	20%	25V
C1415	1-124-902-00	ELECT	0.47MF	20%	50V
C1416	1-124-902-00	ELECT	0.47MF	20%	50V
C1417	1-124-120-11	ELECT	220MF	20%	16V
C1418	1-102-112-00	CERAMIC	330PF	10%	50V
C1419	1-102-112-00	CERAMIC	330PF	10%	50V
C1420	1-124-242-00	ELECT	33MF	20%	25V
C1421	1-124-963-11	ELECT	33MF	20%	16V
C1427	1-101-003-00	CERAMIC	0.0047MF		50V
C1428	1-101-003-00	CERAMIC	0.0047MF		50V
C1429	1-102-824-00	CERAMIC	470PF	5%	50V
C1430	1-102-824-00	CERAMIC	470PF	5%	50V
C1431	1-126-101-11	ELECT	100MF	20%	16V
C1432	1-126-101-11	ELECT	100MF	20%	16V
C1433	1-126-101-11	ELECT	100MF	20%	16V
C1440	1-123-875-11	ELECT	10MF	20%	50V
C1441	1-123-621-71	ELECT	10MF	20%	25V
C1442	1-102-824-00	CERAMIC	470PF	5%	50V
C1443	1-124-902-00	ELECT	0.47MF	20%	50V
C1444	1-102-824-00	CERAMIC	470PF	5%	50V
C1445	1-124-902-00	ELECT	0.47MF	20%	50V
C1449	1-124-477-11	ELECT	47MF	20%	16V
C1451	1-124-477-11	ELECT	47MF	20%	16V
C1452	1-102-976-00	CERAMIC	180PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1455	1-124-477-11	ELECT	47MF	20%	16V	
		<CONNECTOR>				
CNJ01	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				
CNJ02	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P				
CNJ03	1-568-016-11	SOCKET 21P				
CNJ04	1-565-931-11	TERMINAL BLOCK, S 3P				
CNJ05	1-565-840-11	PIN JACK BLOCK 6P				
CNJ06	1-537-187-11	TERMINAL, PUSH (4P)				
CNJ07	*1-564-519-11	PLUG, CONNECTOR 4P				
		<DIODE>				
D1401	8-719-911-19	DIODE 1SS119				
D1403	8-719-110-04	DIODE RD7.5ES-B3				
D1406	8-719-110-04	DIODE RD7.5ES-B3				
D1407	8-719-110-18	DIODE RD10ES-B3				
D1408	8-719-110-14	DIODE RD9.1ES-B3				
D1409	8-719-110-14	DIODE RD9.1ES-B3				
D1410	8-719-110-14	DIODE RD9.1ES-B3				
D1418	8-719-110-04	DIODE RD7.5ES-B3				
D1419	8-719-911-19	DIODE 1SS119				
D1421	8-719-110-04	DIODE RD7.5ES-B3				
D1422	8-719-110-04	DIODE RD7.5ES-B3				
D1423	8-719-110-04	DIODE RD7.5ES-B3				
D1424	8-719-911-19	DIODE 1SS119				
D1425	8-719-911-19	DIODE 1SS119				
D1426	8-719-911-19	DIODE 1SS119				
D1427	8-719-911-19	DIODE 1SS119				
D1428	8-719-911-19	DIODE 1SS119				
D1429	8-719-911-19	DIODE 1SS119				
		<IC>				
IC1401	8-752-032-27	IC CXA1114P				
IC1404	8-759-800-81	IC LA7016				
		<COIL>				
L1401	1-410-470-11	INDUCTOR	10UH			
L1402	1-410-470-11	INDUCTOR	10UH			
L1405	1-410-470-11	INDUCTOR	10UH			
L1406	1-410-470-11	INDUCTOR	10UH			
		<TRANSISTOR>				
Q1401	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1402	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1405	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1406	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1407	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1409	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1410	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R1401	1-249-435-11	CARBON	33K	5%	1/4W	
R1402	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1403	1-249-437-11	CARBON	47K	5%	1/4W	
R1404	1-249-413-11	CARBON	470	5%	1/4W	
R1407	1-247-895-00	CARBON	470K	5%	1/4W	
R1408	1-249-434-11	CARBON	27K	5%	1/4W	
R1409	1-249-411-11	CARBON	330	5%	1/4W	
R1410	1-249-434-11	CARBON	27K	5%	1/4W	
R1411	1-249-411-11	CARBON	330	5%	1/4W	
R1412	1-249-437-11	CARBON	47K	5%	1/4W	
R1413	1-247-895-00	CARBON	470K	5%	1/4W	
R1414	1-249-437-11	CARBON	47K	5%	1/4W	
R1417	1-249-404-00	CARBON	82	5%	1/4W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-249-417-11	CARBON	1K	5%	1/4W	
R1420	1-249-417-11	CARBON	1K	5%	1/4W	
R1421	1-249-416-11	CARBON	820	5%	1/4W	
R1422	1-249-417-11	CARBON	1K	5%	1/4W	
R1423	1-249-434-11	CARBON	27K	5%	1/4W	
R1424	1-249-434-11	CARBON	27K	5%	1/4W	
R1425	1-249-410-11	CARBON	270	5%	1/4W	
R1426	1-249-414-11	CARBON	560	5%	1/4W	
R1427	1-249-417-11	CARBON	1K	5%	1/4W	
R1428	1-247-895-00	CARBON	470K	5%	1/4W	
R1429	1-247-895-00	CARBON	470K	5%	1/4W	
R1430	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1433	1-249-409-11	CARBON	220	5%	1/4W	
R1434	1-247-698-11	CARBON	68	5%	1/4W	F
R1435	1-249-417-11	CARBON	1K	5%	1/4W	
R1436	1-249-433-11	CARBON	22K	5%	1/4W	
R1437	1-249-429-11	CARBON	10K	5%	1/4W	
R1440	1-249-416-11	CARBON	820	5%	1/4W	
R1441	1-249-416-11	CARBON	820	5%	1/4W	
R1442	1-249-437-11	CARBON	47K	5%	1/4W	
R1443	1-249-437-11	CARBON	47K	5%	1/4W	
R1444	1-249-409-11	CARBON	220	5%	1/4W	
R1445	1-249-409-11	CARBON	220	5%	1/4W	
R1447	1-249-409-11	CARBON	220	5%	1/4W	
R1448	1-249-409-11	CARBON	220	5%	1/4W	
R1449	1-249-405-11	CARBON	100	5%	1/4W	
R1450	1-249-404-00	CARBON	82	5%	1/4W	
R1452	1-249-409-11	CARBON	220	5%	1/4W	
R1453	1-249-404-00	CARBON	82	5%	1/4W	
R1455	1-247-895-00	CARBON	470K	5%	1/4W	
R1456	1-249-434-11	CARBON	27K	5%	1/4W	
R1457	1-247-895-00	CARBON	470K	5%	1/4W	
R1458	1-249-463-11	CARBON	27K	5%	1/4W	
R1463	1-249-417-11	CARBON	1K	5%	1/4W	
R1464	1-249-404-00	CARBON	82	5%	1/4W	
R1465	1-249-405-11	CARBON	100	5%	1/4W	
R1467	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1468	1-249-405-11	CARBON	100	5%	1/4W	
R1469	1-249-429-11	CARBON	10K	5%	1/4W	
R1473	1-249-440-11	CARBON	82K	5%	1/4W	
R1481	1-249-404-00	CARBON	82	5%	1/4W	
R1483	1-249-403-11	CARBON	68	5%	1/4W	
R1484	1-249-413-11	CARBON	470	5%	1/4W	
R1485	1-249-430-11	CARBON	12K	5%	1/4W	
R1486	1-247-804-11	CARBON	75	5%	1/4W	
R1487	1-249-399-11	CARBON	33	5%	1/4W	
R1488	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1489	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1501	1-249-428-11	CARBON	8.2K	5%	1/4W	
		<SWITCH>				
S1401	1-571-362-11	SWITCH, TACTIL				
S1402	1-571-362-11	SWITCH, TACTIL				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
	1-466-096-11	PANEL BLOCK	
	1-466-097-11	PANEL BLOCK	
	⚠ 1-451-313-12	DEFLECTION YOKE (SY-191)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	⚠ 1-563-204-13	SOCKET, ANTENNA (PAL/SECAM)	
	⚠ 1-574-380-11	CORD, POWER (WITH CONNECTOR)	
L901	⚠ 1-426-408-11	COIL, DEMAGNETIZATION	
V901	⚠ 8-733-821-05	PICTURE TUBE (A68JYK10X)	

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
A-1470-864-A	COMMANDER ASSY (RM-679MT)	
⚠ 1-417-149-11	MIXER, U/V	
1-506-401-00	ADAPTOR, CONVERSION	
1-559-238-11	CORD, SPEAKER CONNECTION	
3-786-945-51	MANUAL, INSTRUCTION	
*4-381-155-01	BAG, PROTECTION	
*4-383-108-01	BAND	
*4-391-747-01	CUSHION (UPPER) (ASSY)	
*4-391-748-01	CUSHION (LOWER) (ASSY)	
*4-392-422-01	TRAY .	
*4-392-426-01	INDIVIDUAL CARTON	

9-964-238-01

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TV Group

English
89BU0407-1
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KV-2900T

RM-679MT/SS-XT291

SONY

SERVICE MANUAL

GE Model

Serial No. 2,001,041 and later

Chassis No. SCC-C41A-A

SUPPLEMENT-1

File this supplement with the Service Manual.

INTRODUCTION

A, K, J1 Boards modification

: **modified portion**

: **Indicate modified portion**

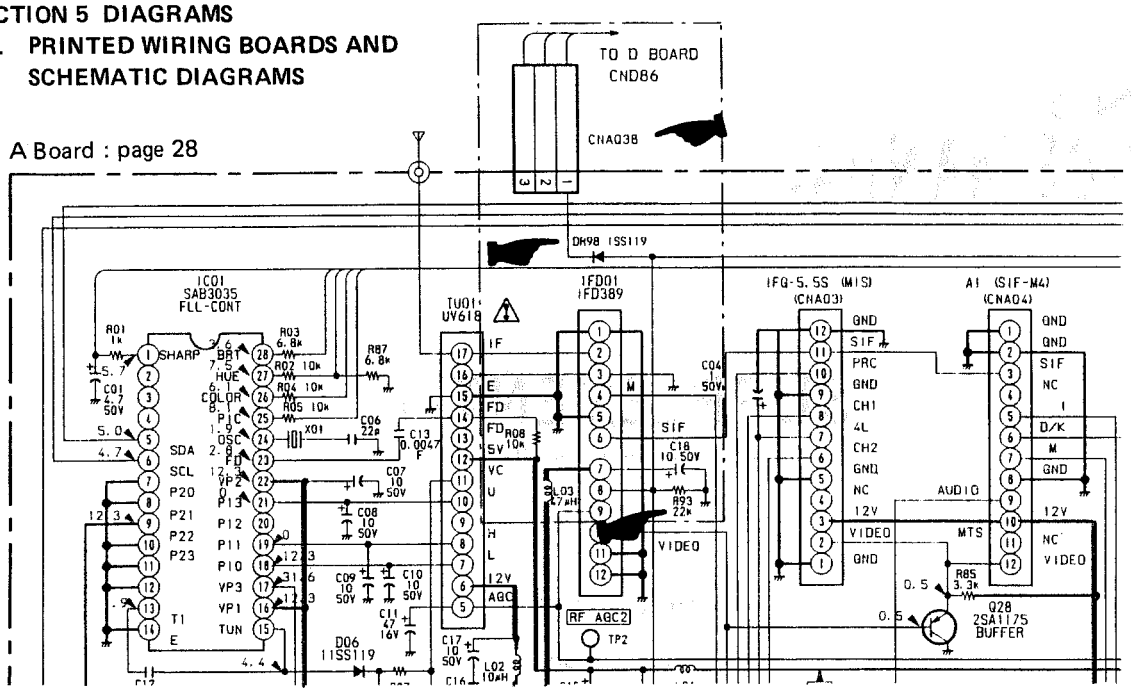
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MC-Service

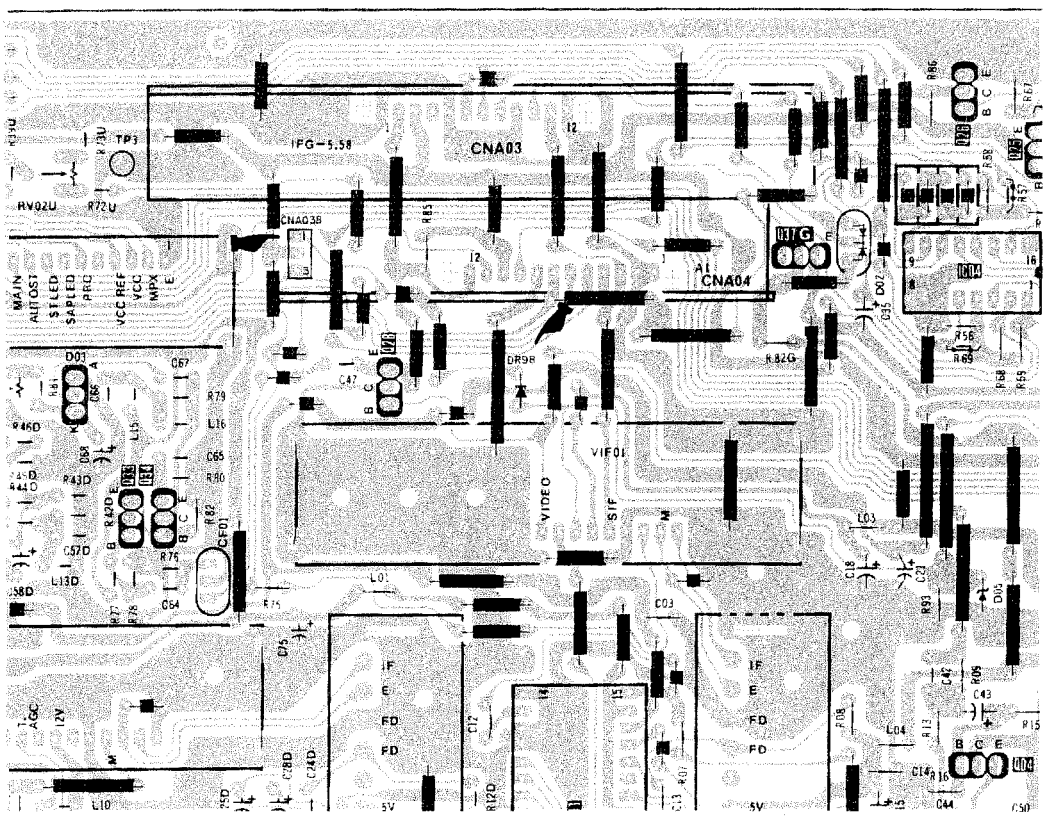
SECTION 5 DIAGRAMS

5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

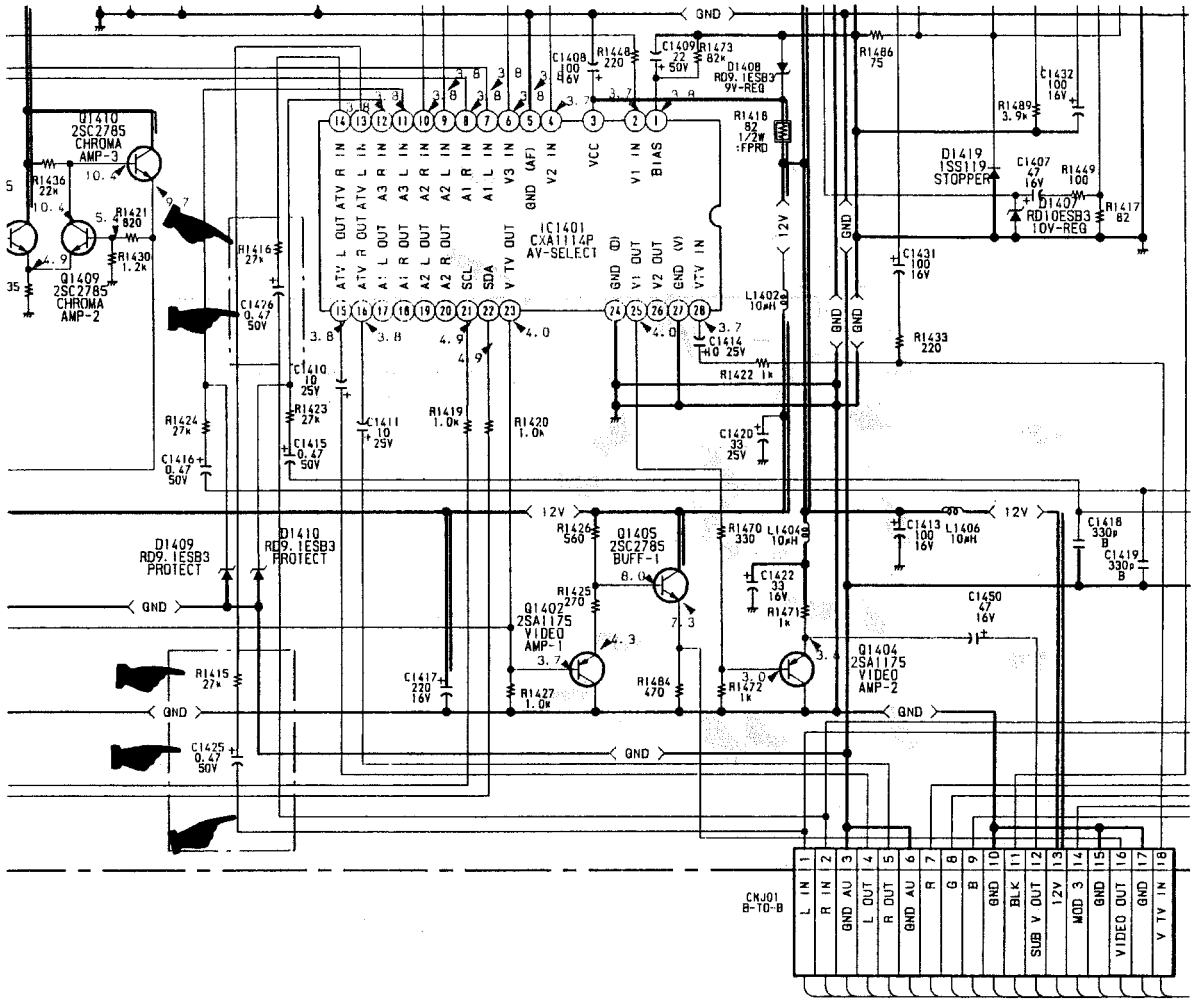
A Board : page 28



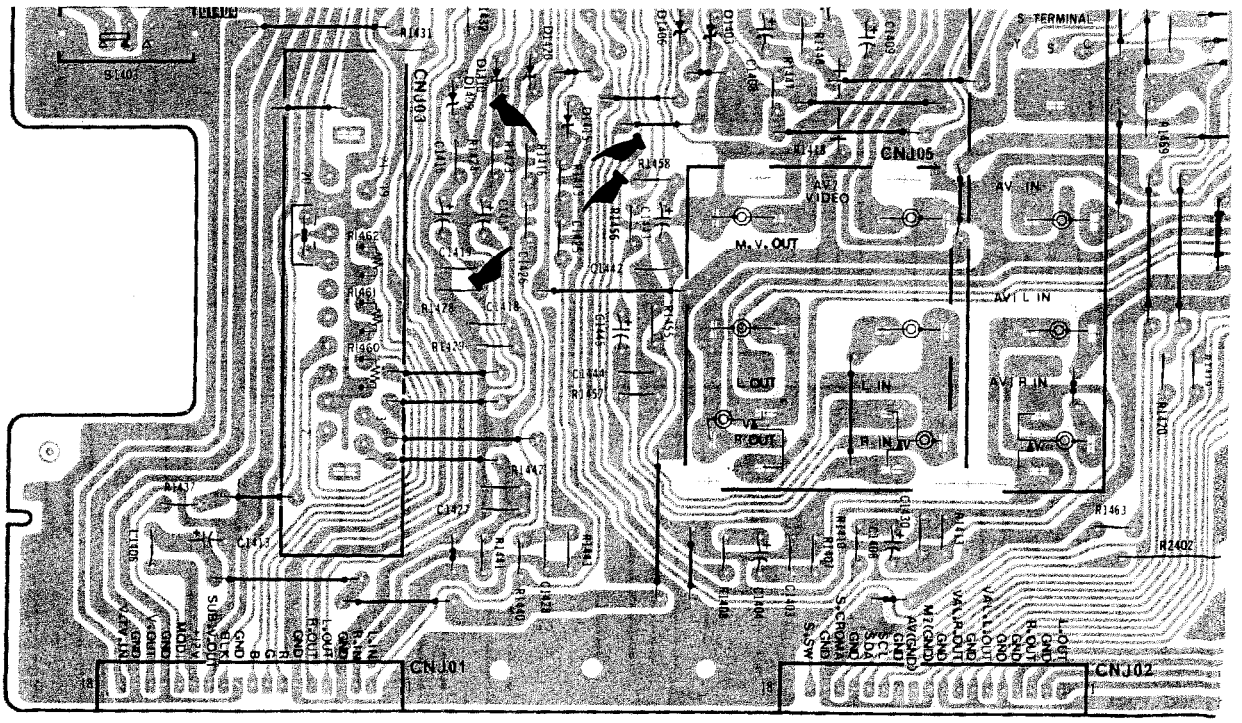
A Board : page 30



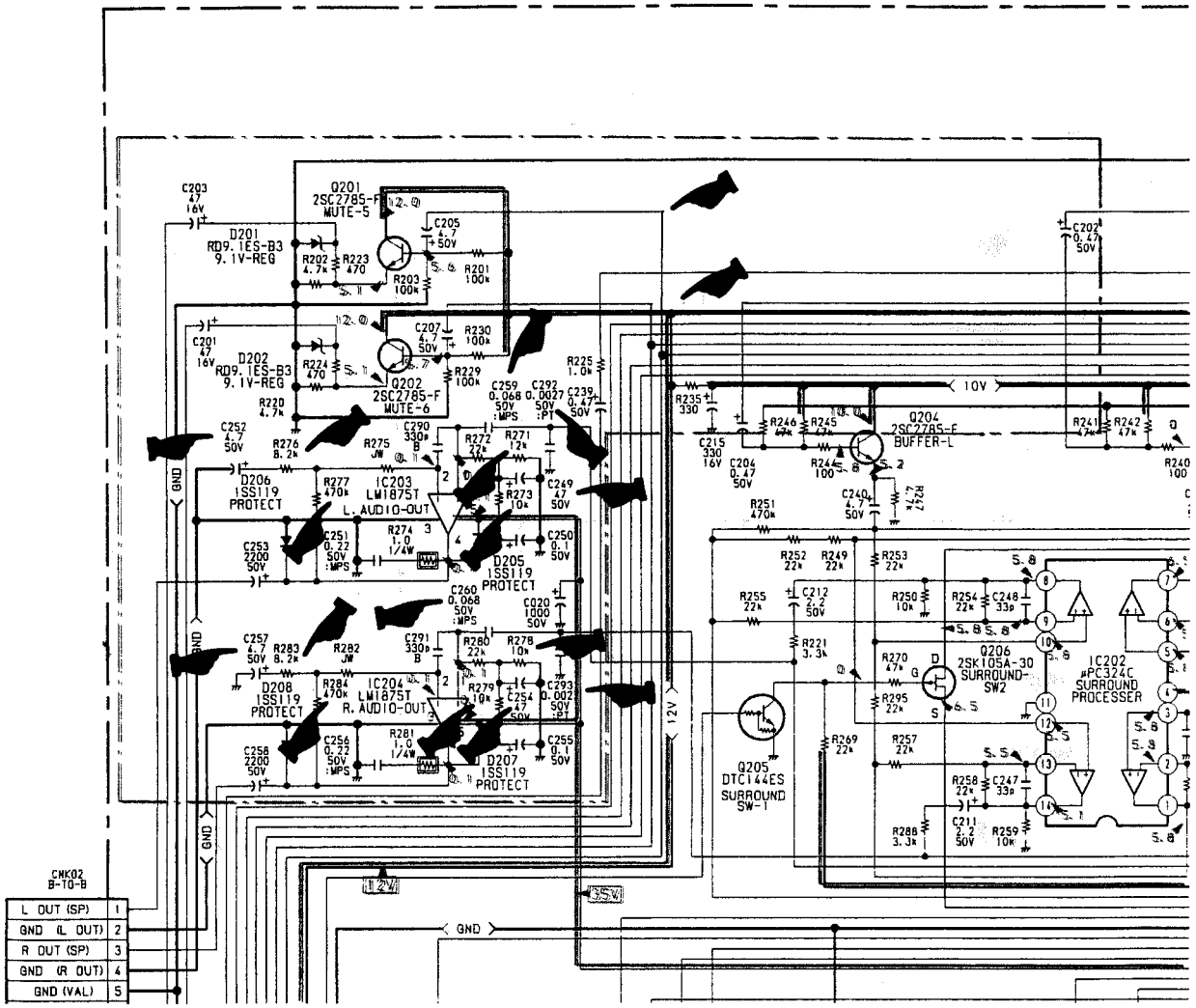
J1 Board : page 37, 38



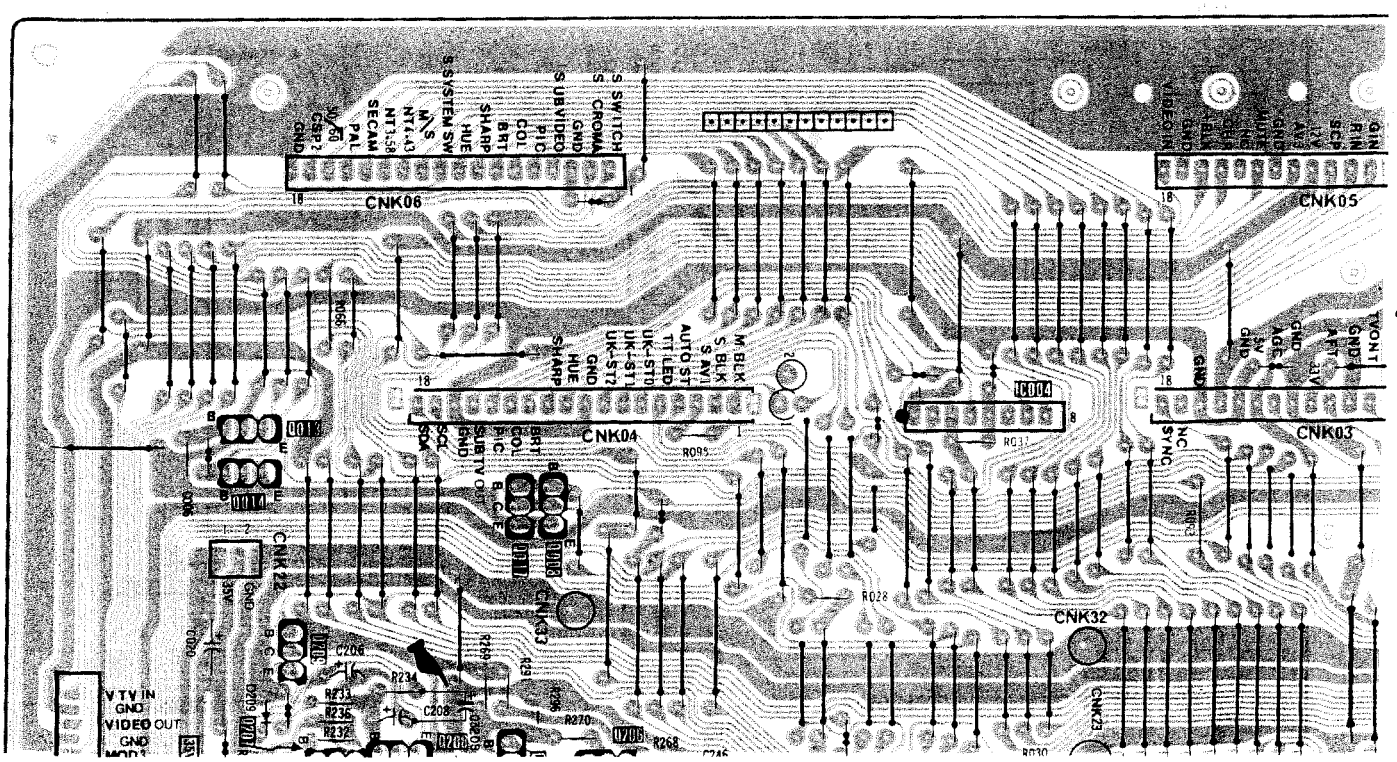
J1 Board : page 41



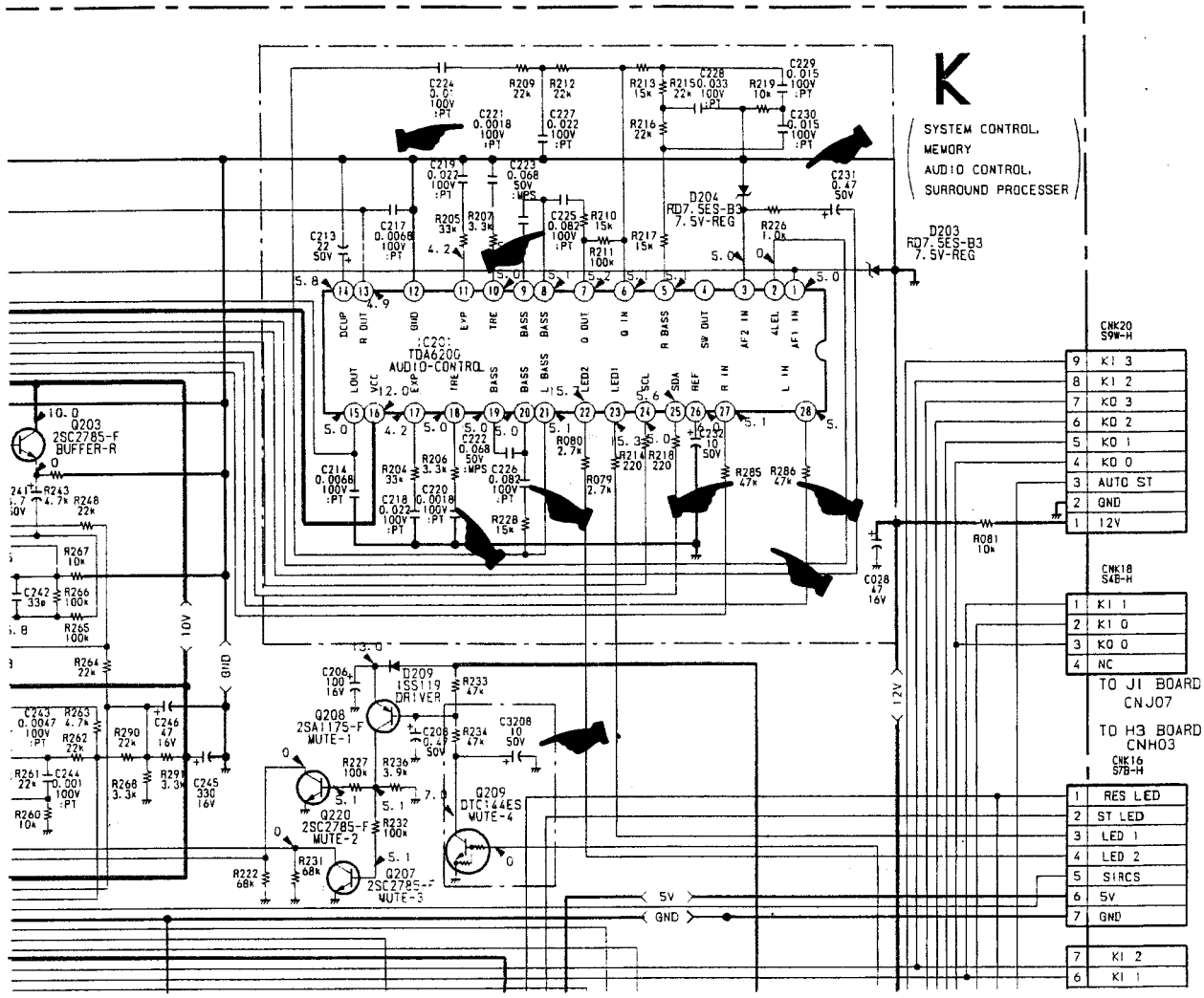
K board : page 31



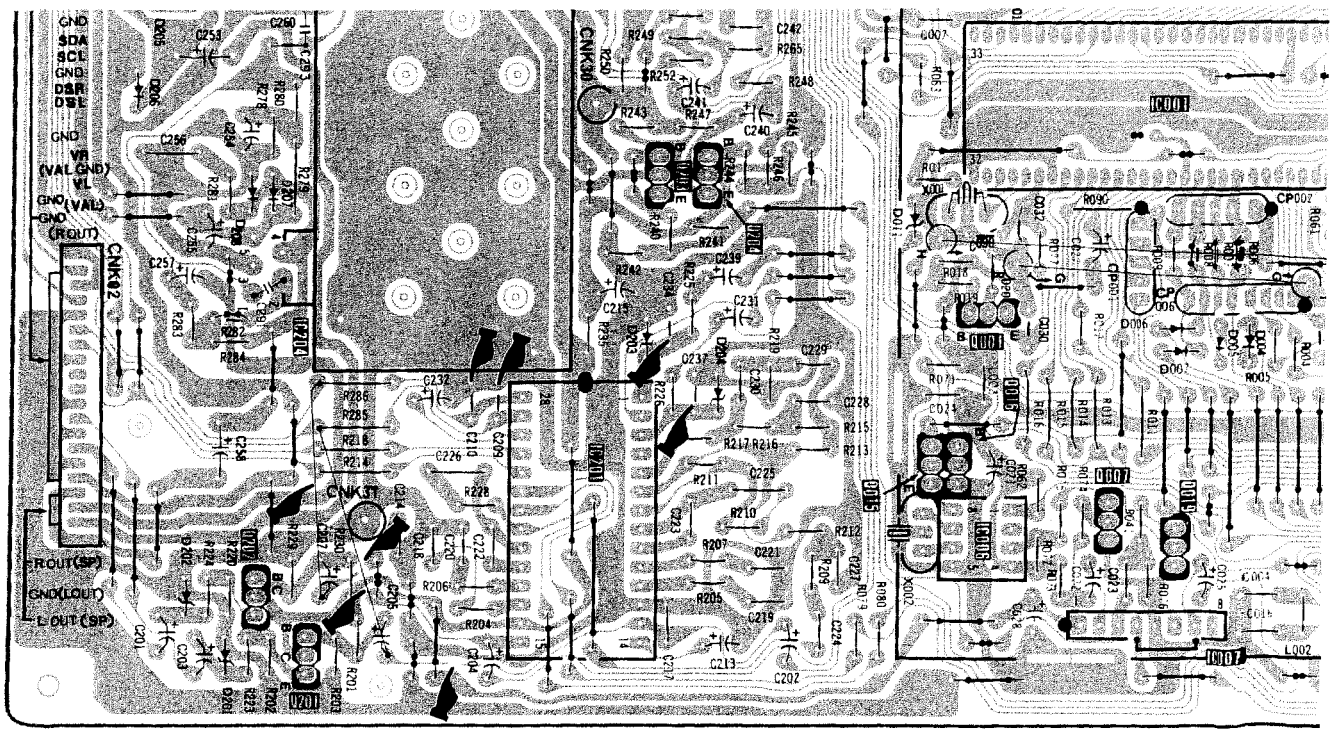
K Board : page 33



K Board : page 32



K Board : page 33



A | J1

SECTION 7 ELECTRICAL PARTS LIST

A Board : page 54, 55

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CNA01	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA02	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
CNA03	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNA04	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P	
CNAQ38	*1-564-506-11	CONNECTOR, BOARD TO BOARD 3P	
		<CERAMIC TRAP>	
CT01	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
		<DIODE>	
D02	8-719-000-06	DIODE MC921	
D05	8-719-100-35	DIODE RD5.6E-B2	
D06	8-719-911-19	DIODE 1SS119	
DR98	8-719-911-19	DIODE 1SS119	
		<RESISTOR>	
R92	1-249-421-11	CARBON 2.2K 5% 1/4W	
R93	1-249-433-11	CARBON 22K 5% 1/4W	
R94	1-249-425-11	CARBON 4.7K 5% 1/4W	
R96	1-249-433-11	CARBON 22K 5% 1/4W	
R98	1-249-441-11	CARBON 100K 5% 1/4W	

J1 Board : page 62, 63

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<CAPACITOR>	
C1421	1-124-963-11	ELECT 33MF 20% 16V	
C1425	1-124-902-00	ELECT 0.47MF 20% 50V	
C1426	1-124-902-00	ELECT 0.47MF 20% 50V	
C1427	1-101-003-00	CERAMIC 0.0047MF 50V	
C1428	1-101-003-00	CERAMIC 0.0047MF 50V	
		<RESISTOR>	
R1413	1-247-895-00	CARBON 470K 5% 1/4W	
R1414	1-249-437-11	CARBON 47K 5% 1/4W	
R1415	1-249-434-11	CARBON 27K 5% 1/4W	
R1416	1-249-434-11	CARBON 27K 5% 1/4W	
R1417	1-249-404-00	CARBON 82 5% 1/4W	
R1418	1-247-738-11	CARBON 82 5% 1/2W	F
R1419	1-249-417-11	CARBON 1K 5% 1/4W	

K

K Board : page 66–68

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C215	1-124-119-00	ELECT	330MF	20%	16V	
C217	1-106-363-00	MYLAR	0.0068MF	10%	100V	
C218	1-106-375-12	MYLAR	0.022MF	10%	100V	
C219	1-106-375-12	MYLAR	0.022MF	10%	100V	
☛ C220	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C221	1-106-349-00	MYLAR	0.0018MF	10%	100V	
C222	1-136-163-00	FILM	0.068MF	5%	50V	
C223	1-136-163-00	FILM	0.068MF	5%	50V	
☛ C224	1-106-367-00	MYLAR	0.01MF	10%	100V	
☛ C225	1-106-218-00	FILM	0.082MF	5%	100V	
☛ C226	1-106-218-00	FILM	0.082MF	5%	100V	
C227	1-106-375-12	MYLAR	0.022MF	10%	100V	
C228	1-106-379-12	MYLAR	0.033MF	10%	100V	
C229	1-106-371-00	MYLAR	0.015MF	10%	100V	
C230	1-106-371-00	MYLAR	0.015MF	10%	100V	
C231	1-124-902-00	ELECT	0.47MF	20%	50V	
C232	1-123-875-11	ELECT	10MF	20%	50V	
C239	1-124-902-00	ELECT	0.47MF	20%	50V	
C240	1-124-927-11	ELECT	4.7MF	20%	50V	
C241	1-124-927-11	ELECT	4.7MF	20%	50V	
C242	1-102-963-00	CERAMIC	33PF	5%	50V	
C243	1-106-359-00	MYLAR	0.0047MF	10%	100V	
C244	1-106-343-00	MYLAR	0.001MF	10%	100V	
C245	1-124-119-00	ELECT	330MF	20%	16V	
C246	1-124-477-11	ELECT	47MF	20%	16V	
C247	1-102-963-00	CERAMIC	33PF	5%	50V	
C248	1-102-963-00	CERAMIC	33PF	5%	50V	
☛ C249	1-124-910-11	ELECT	47MF	20%	50V	
C250	1-124-463-00	ELECT	0.1MF	20%	50V	
C251	1-136-169-00	FILM	0.22MF	5%	50V	
☛ C252	1-124-927-11	ELECT	4.7MF	20%	50V	
C253	1-124-607-11	ELECT	2200MF	20%	50V	
☛ C254	1-124-910-11	ELECT	47MF	20%	50V	
C255	1-124-463-00	ELECT	0.1MF	20%	50V	
C256	1-136-169-00	FILM	0.22MF	5%	50V	
☛ C257	1-124-927-11	ELECT	4.7MF	20%	50V	
C258	1-124-607-11	ELECT	2200MF	20%	50V	
☛ C259	1-136-163-00	FILM	0.068MF	5%	50V	
☛ C260	1-136-163-00	FILM	0.068MF	5%	50V	
C290	1-101-112-00	CERAMIC	330PF	10%	50V	
C291	1-101-112-00	CERAMIC	330PF	10%	50V	
☛ C292	1-130-476-00	MYLAR	0.0027MF	10%	50V	
☛ C293	1-130-476-00	MYLAR	0.0027MF	10%	50V	
☛ C3208	1-123-875-11	ELECT	10MF	20%	50V	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-437-11	CARBON	47K	5%	1/4W	
R226	1-249-437-11	CARBON	47K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-431-11	CARBON	15K	5%	1/4W	
R229	1-249-441-11	CARBON	100K	5%	1/4W	
R269	1-249-433-11	CARBON	22K	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
☛ R271	1-249-429-11	CARBON	10K	5%	1/4W	
R272	1-249-433-11	CARBON	22K	5%	1/4W	
☛ R273	1-247-725-11	CARBON	10K	5%	1/4W	
R274	1-249-381-11	CARBON	1	5%	1/4W	F
☛ R276	1-249-428-11	CARBON	8.2K	5%	1/4W	
☛ R277	1-247-895-00	CARBON	470K	5%	1/4W	
☛ R278	1-249-429-11	CARBON	10K	5%	1/4W	
☛ R279	1-247-725-11	CARBON	10K	5%	1/4W	
R280	1-249-433-11	CARBON	22K	5%	1/4W	
R281	1-249-381-11	CARBON	1	5%	1/4W	
☛ R283	1-249-428-11	CARBON	8.2K	5%	1/4W	
☛ R284	1-247-895-00	CARBON	470K	5%	1/4W	
☛ R285	1-249-465-11	CARBON	47K	5%	1/4W	
☛ R286	1-249-465-11	CARBON	47K	5%	1/4W	
R288	1-249-423-11	CARBON	3.3K	5%	1/4W	
R290	1-249-433-11	CARBON	22K	5%	1/4W	
R291	1-249-423-11	CARBON	3.3K	5%	1/4W	
R292	1-215-899-11	METAL OXIDE	15K	5%	2W	F

SONY

TRINITRON® COLOR TV BASIC SCHEMATIC DIAGRAM

KV-3400D/RM-679MTP *Chassis No. SCC-C29B*

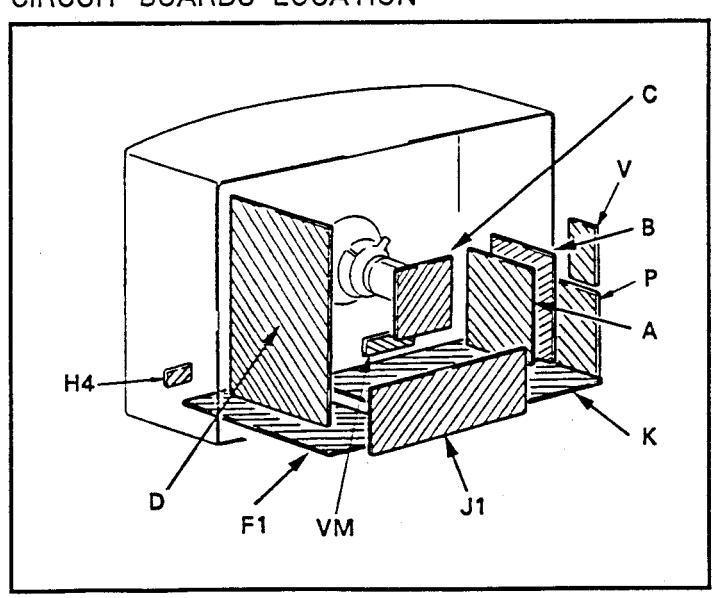
NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE TECHNICIAN.
KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND ⚠ MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

CIRCUIT BOARDS LOCATION



MC-Service

Sony Corporation

©1989

3-750-048-01

Printed in Japan

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm Rating electrical power : 1/4W

- All resistors are in ohms.
- : nonflammable resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
  no mark : PAL
  < > : SECAM
  ( ) : NTSC 3.58MHz
  [ ] : NTSC 4.43MHz
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B+line
- : signal path.

Reference information

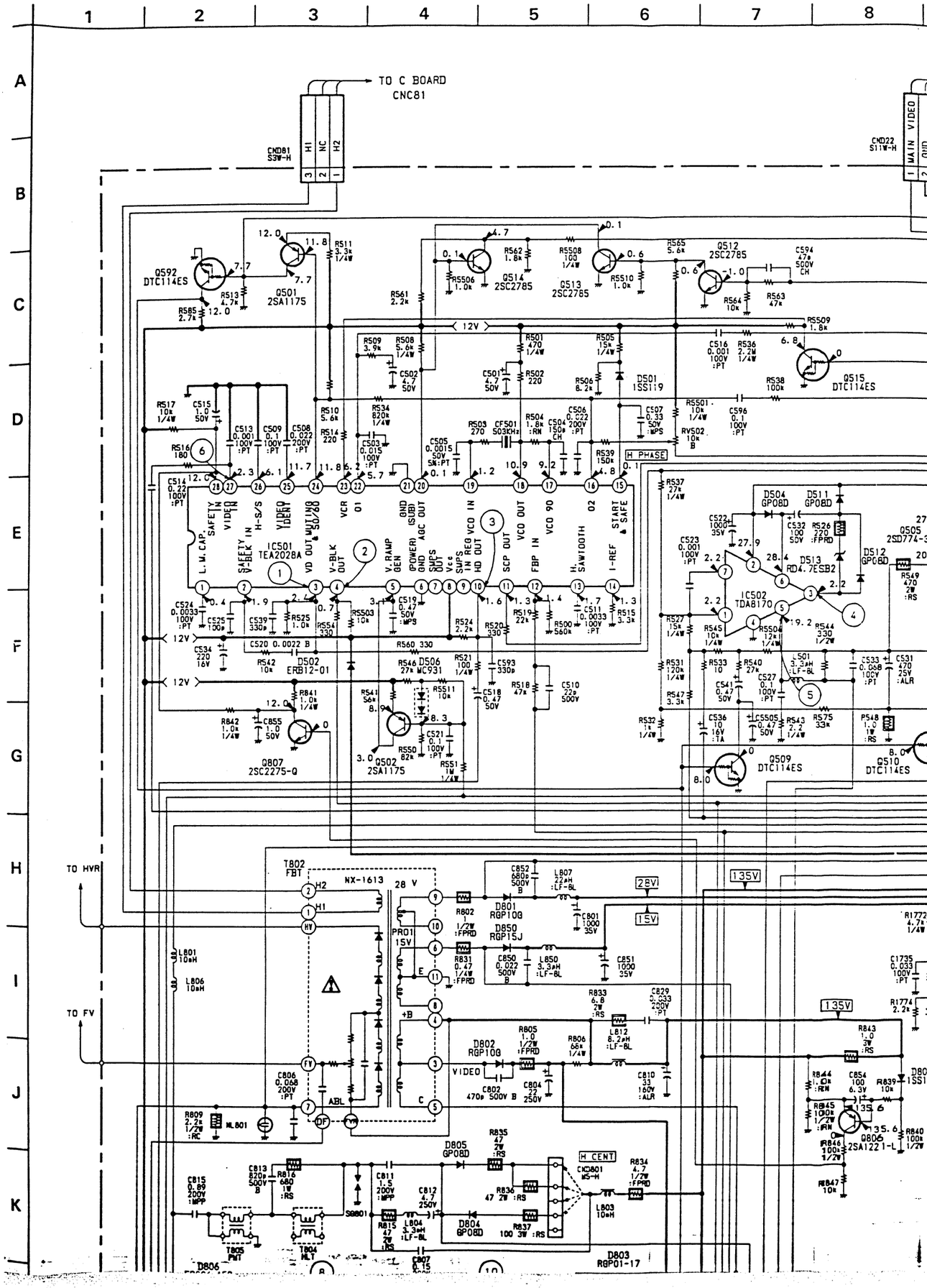
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

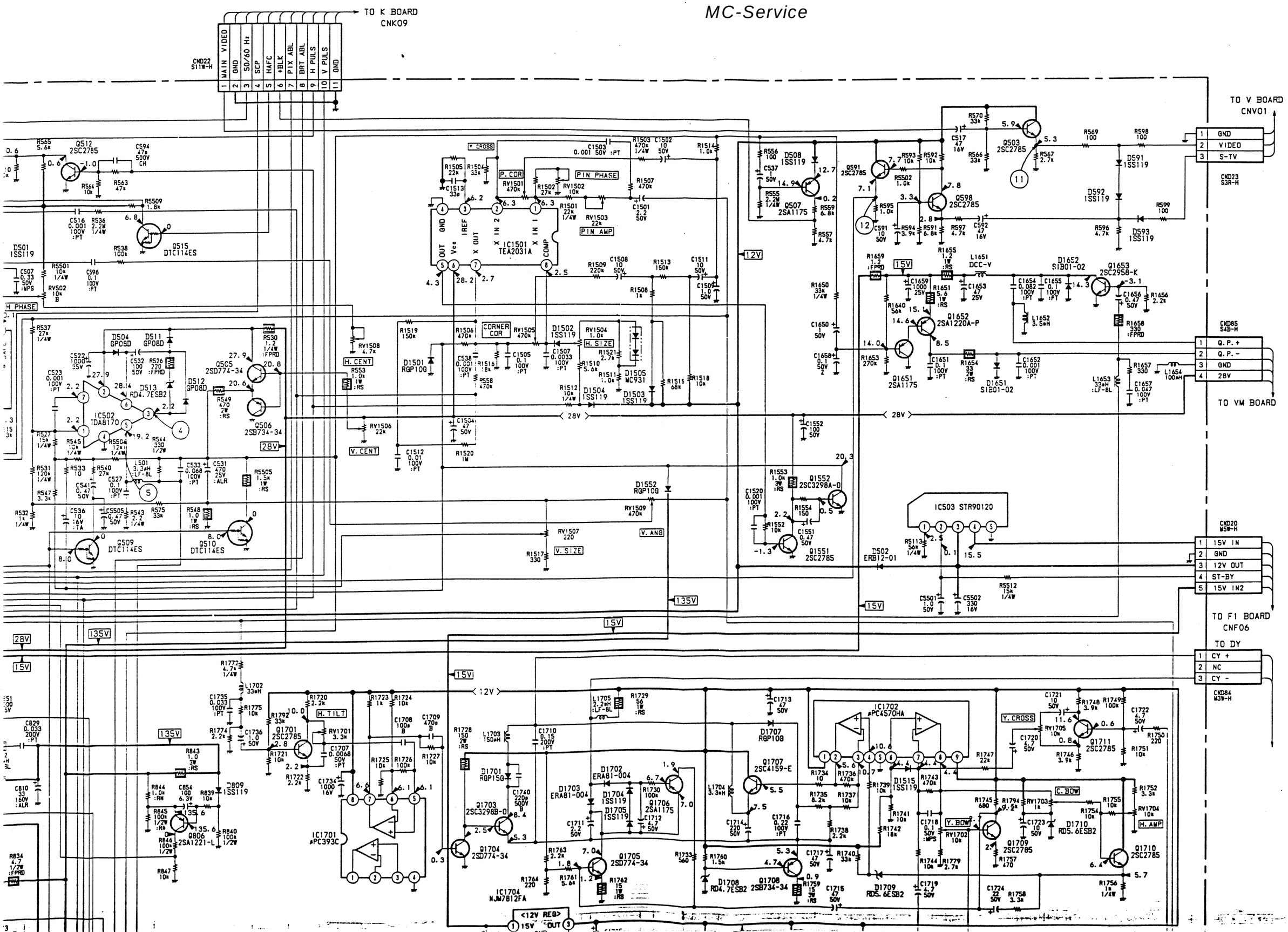
● D BOARD WAVEFORM

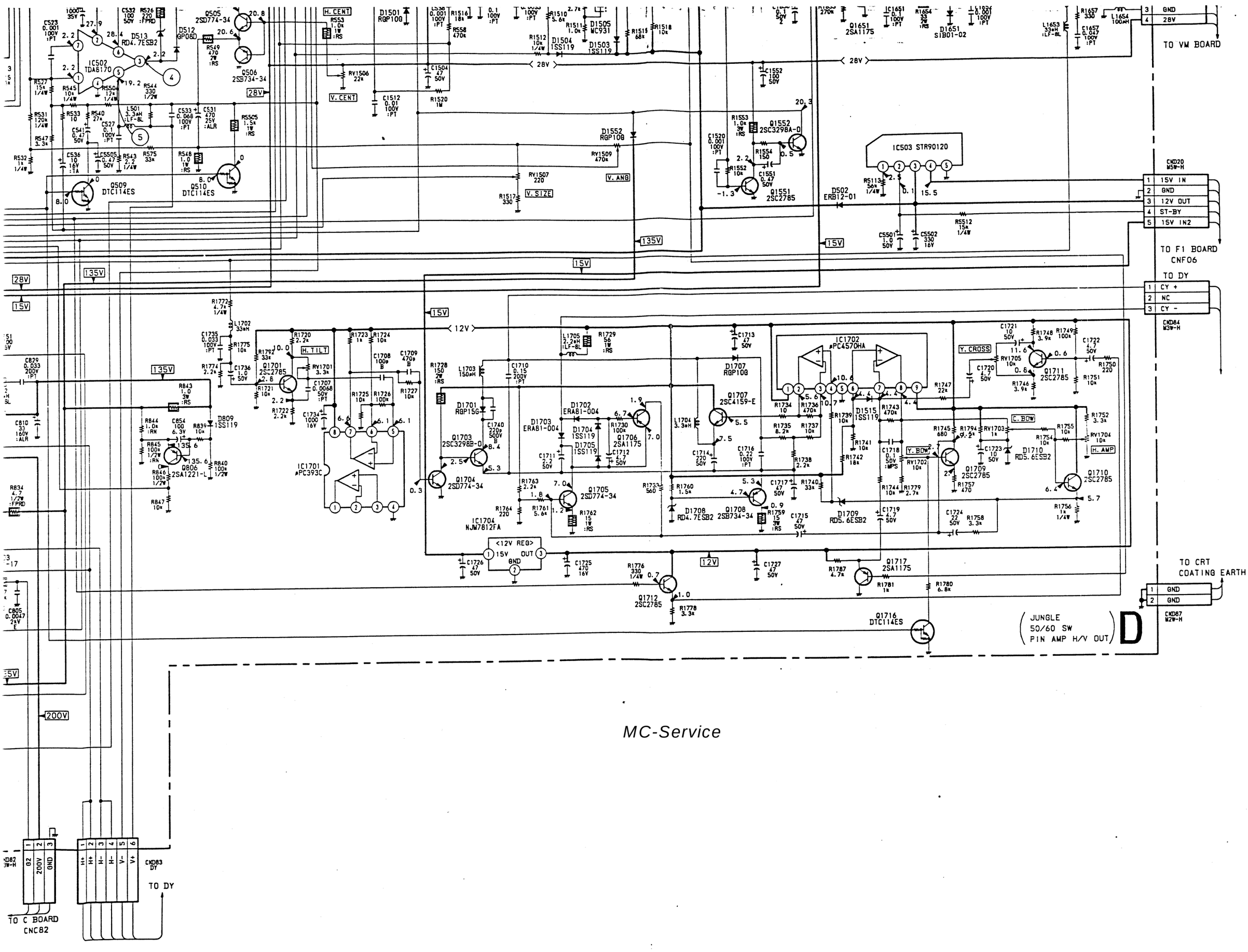
① 2.5 Vp-p (V)	② 10 Vp-p (V)	③ 3.7 Vp-p (H)	④ 28 Vp-p (V)	⑤ 46 Vp-p (V)
⑥ 3.0Vp-p (H)	⑦ 3.0Vp-p (H)	⑧ 210Vp-p (H)	⑨ 13 Vp-p (H)	⑩ 1200Vp-p (H)
⑪ 1.2Vp-p (H)	⑫ 1.5Vp-p (H)			

SCHEATIC DIAGRAM



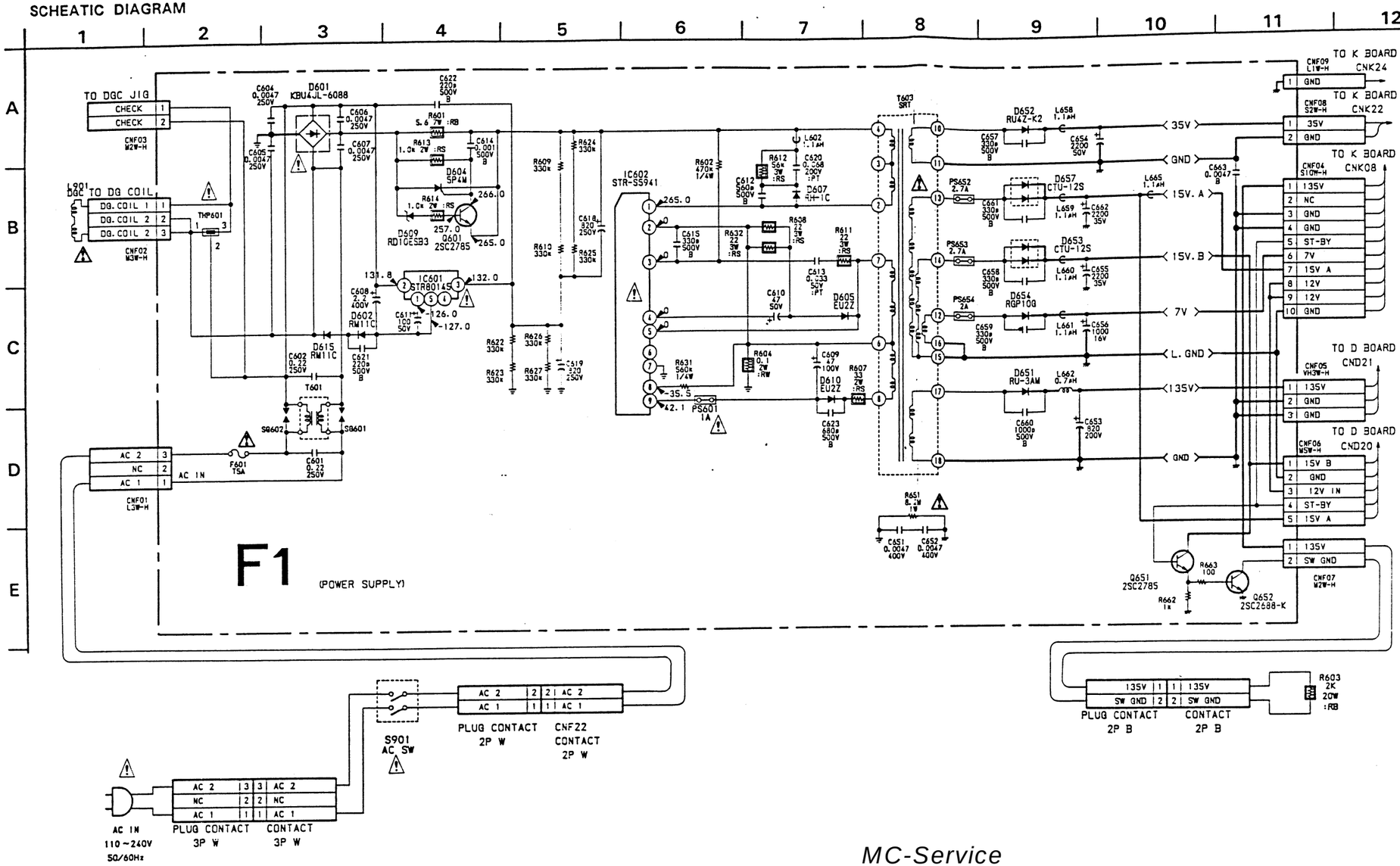
6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21



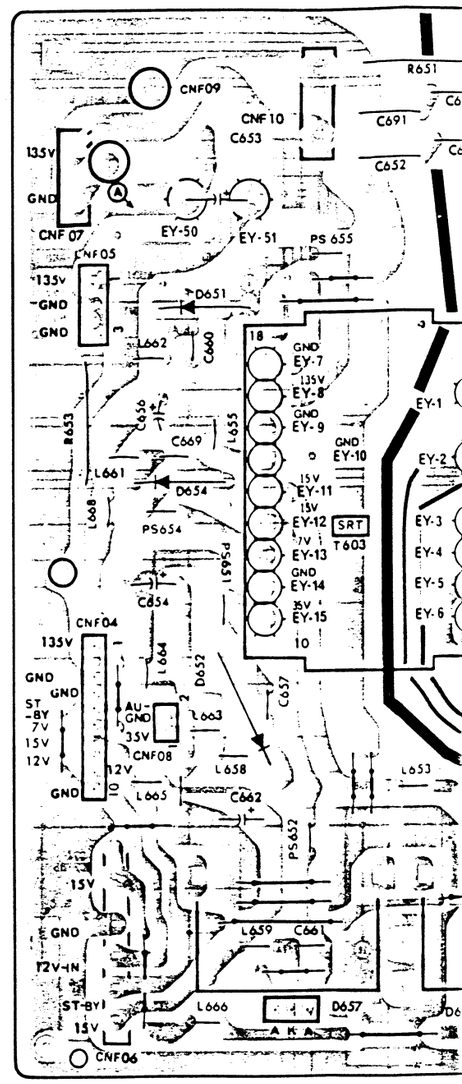

IC502 TDA8170
IC503 STR90120
IC1701 μPC393C
IC1702 μPC4570HA
IC1704 NJM7812FA
Q501 2SD774-34
Q502 2SB734-34
Q503 2SD774-34
Q504 2SB734-34
Q505 2SD774-34
Q506 2SB734-34
Q509 DTC114ES
Q510 DTC114ES
Q1551 2SC2785
Q1552 2SC3298A-O
Q1651 2SA1175
Q1701 2SC2785
Q1703 2SC3298B-O
Q1704 2SD774-34
Q1705 2SD774-34
Q1706 2SA1175
Q1707 2SC4159-E
Q1708 2SB734-34
Q1709 2SC2785
Q1710 2SC2785
Q1711 2SC2785
Q1712 2SC2785
Q1716 DTC114ES
Q1717 2SA1175
Q806 2SA1221-L
D502 ERB12-01
D512 GP08D
D513 RD4.7ESB2
D1501 RGP10B
D1503 1SS119
D1504 1SS119
D1505 MC931
D1552 RGP10B
D1651 SIB01-02
D1701 RGP15G
D1702 ERA81-004
D1703 ERA81-004
D1704 1SS119
D1705 1SS119
D1707 RGP10B
D1708 RD4.7ESB2
D1709 RD5.6ESB2
D1710 RD5.6ESB2
D1515 1SS119
D809 1SS119
H. CENT
V. CENT
H. TILT
V. ANG
V. SIZE
Y. CROSS
C. BOW
Y. BOW
H. AMP
<12V REG>
28V
135V
15V
12V
200V
CND20 M5W-H
1 15V IN
2 GND
3 12V OUT
4 ST-BY
5 15V IN2
TO VM BOARD
TO F1 BOARD CNF06
TO DY
CND84 M3W-H
1 CY +
2 NC
3 CY -
TO CRT COATING EARTH
CND87 M2W-H
1 GND
2 GND
CND83 DY
1 H+
2 H+
3 H-
4 H-
5 V-
6 V+
TO DY
CND82 3W-H
1 02
2 200V
3 GND
TO C BOARD CNC82
JUNGLE 50/60 SW PIN AMP H/V OUT
D

F1 [POWER SUPPLY]

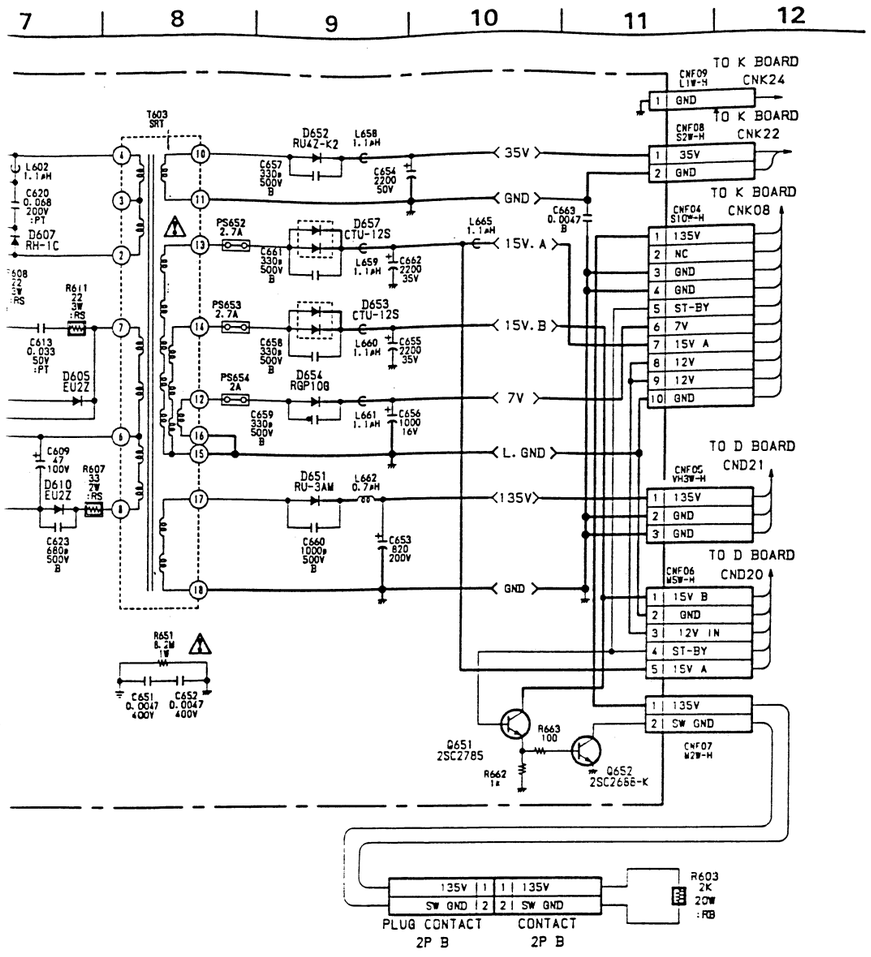
SCHEATIC DIAGRAM



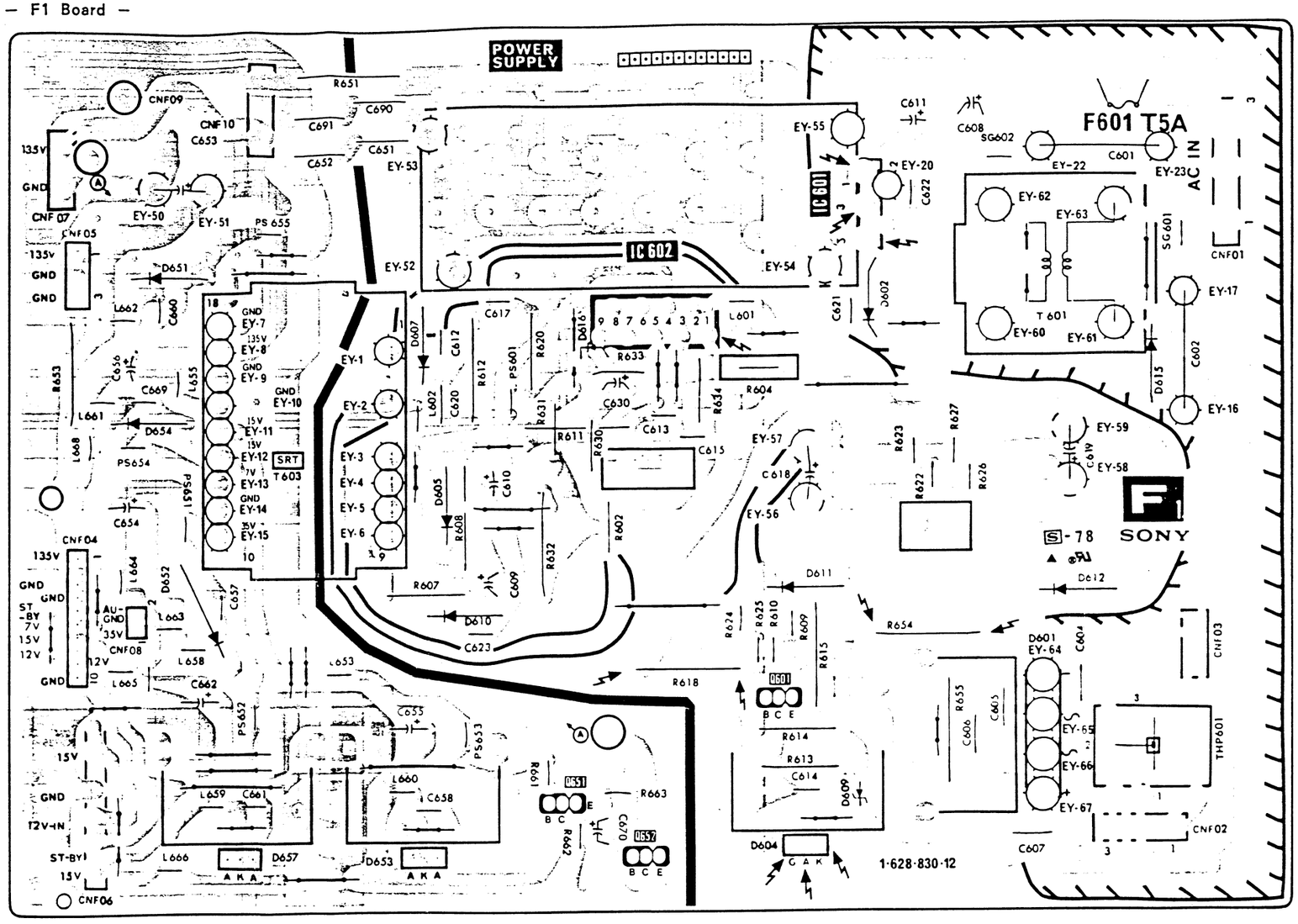
PRINTED WIRING BOARD
–Conductor Side–
– F1 Board –



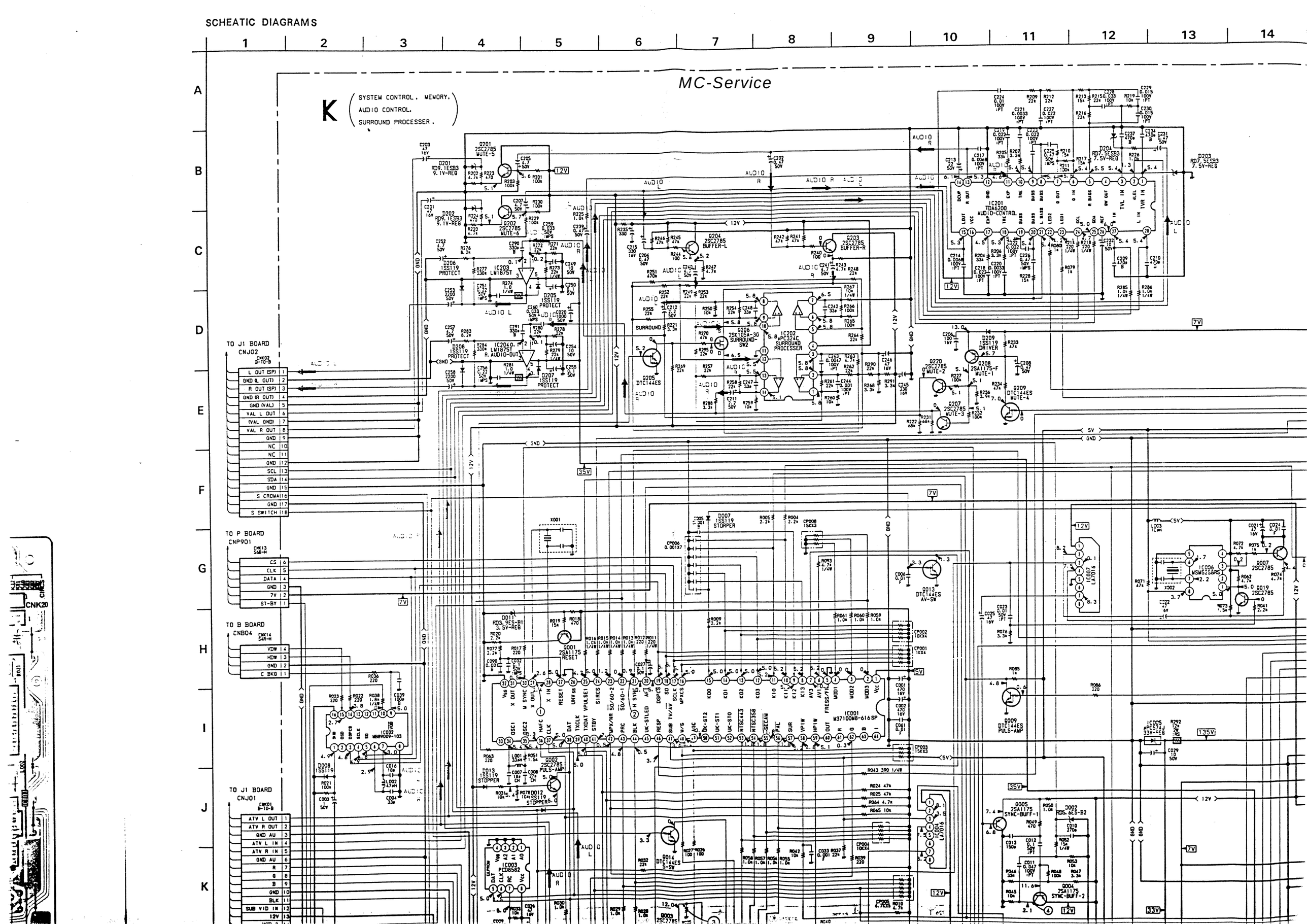
F1 [POWER SUPPLY]

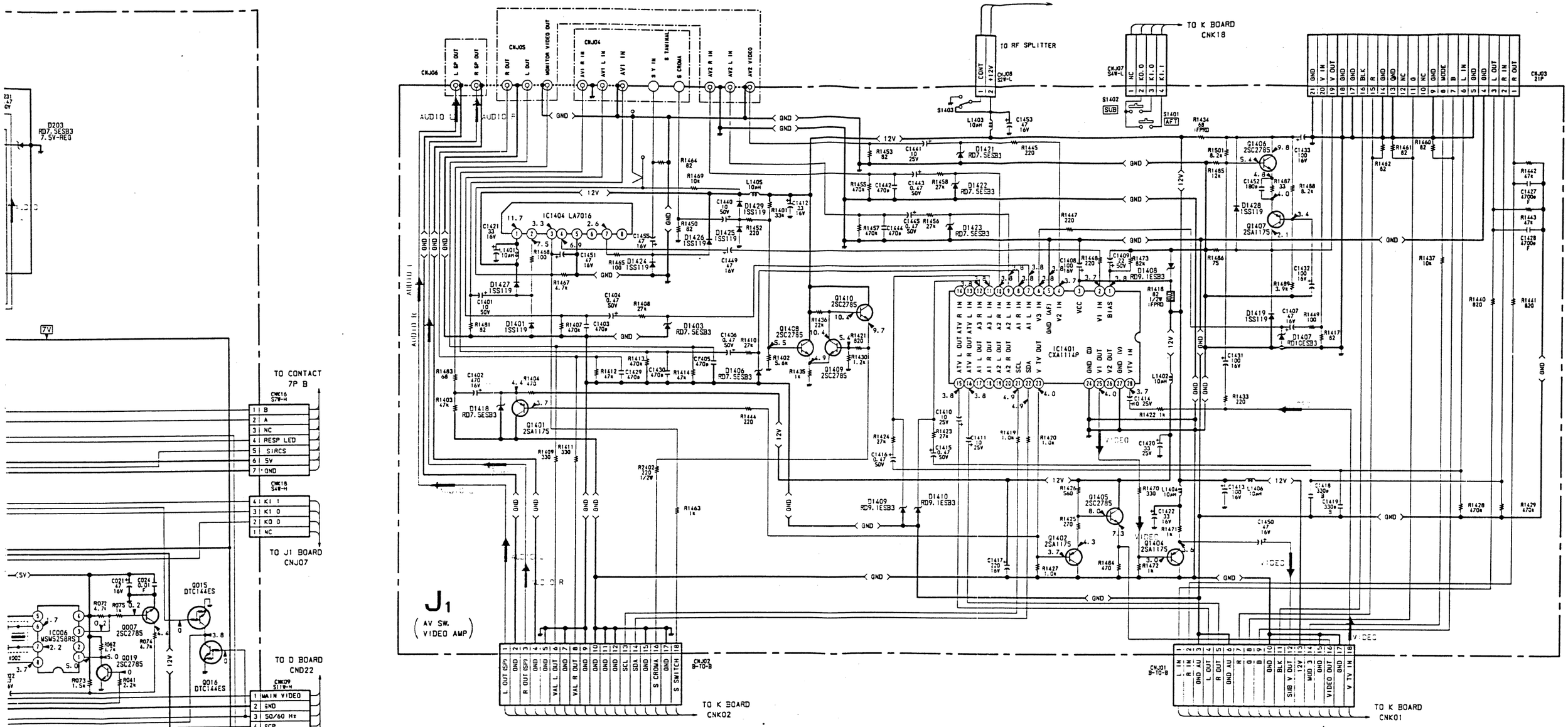


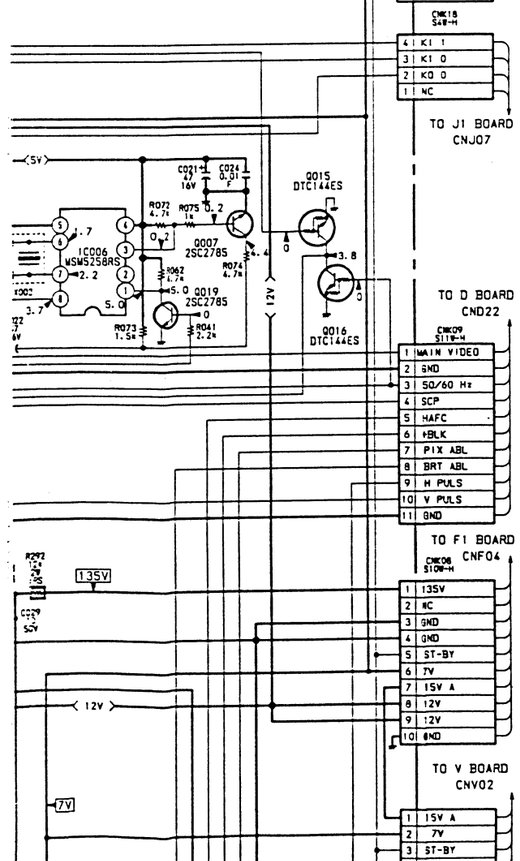
PRINTED WIRING BOARD
–Conductor Side–
– F1 Board –



K (SYSTEM CONTROL. MEWORY. AUDIO CONTROL. SURROUND PROCESSER.)







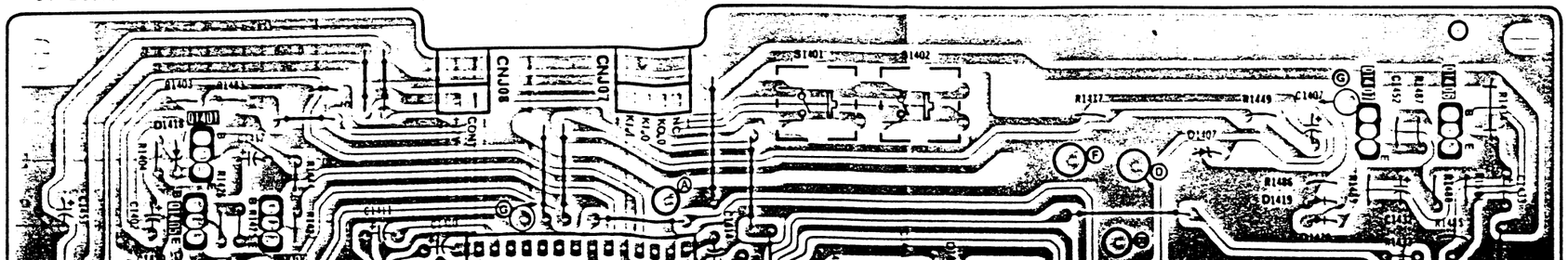
MC-Service

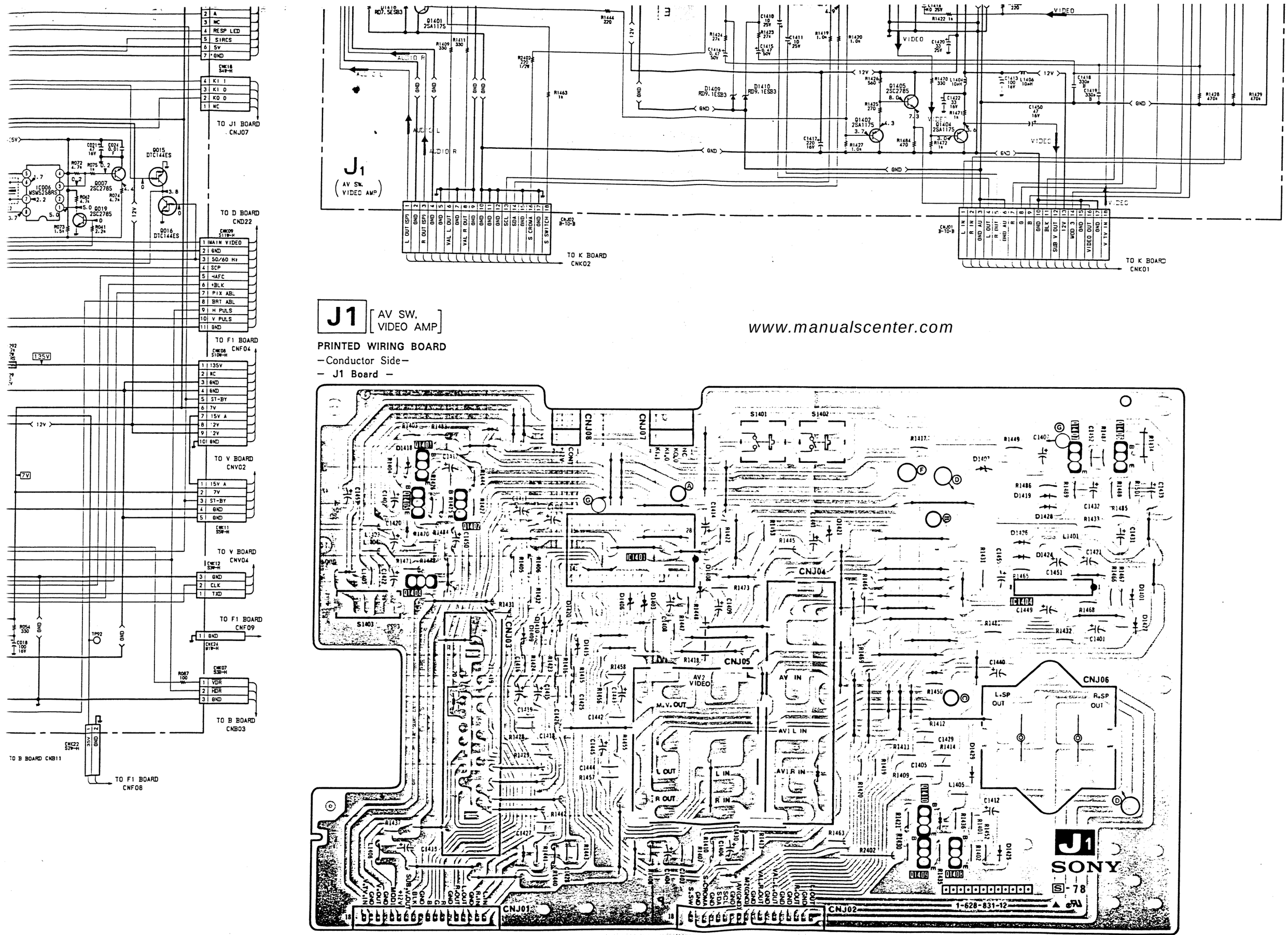
J1 [AV SW. VIDEO AMP]

PRINTED WIRING BOARD

–Conductor Side–

– J1 Board –





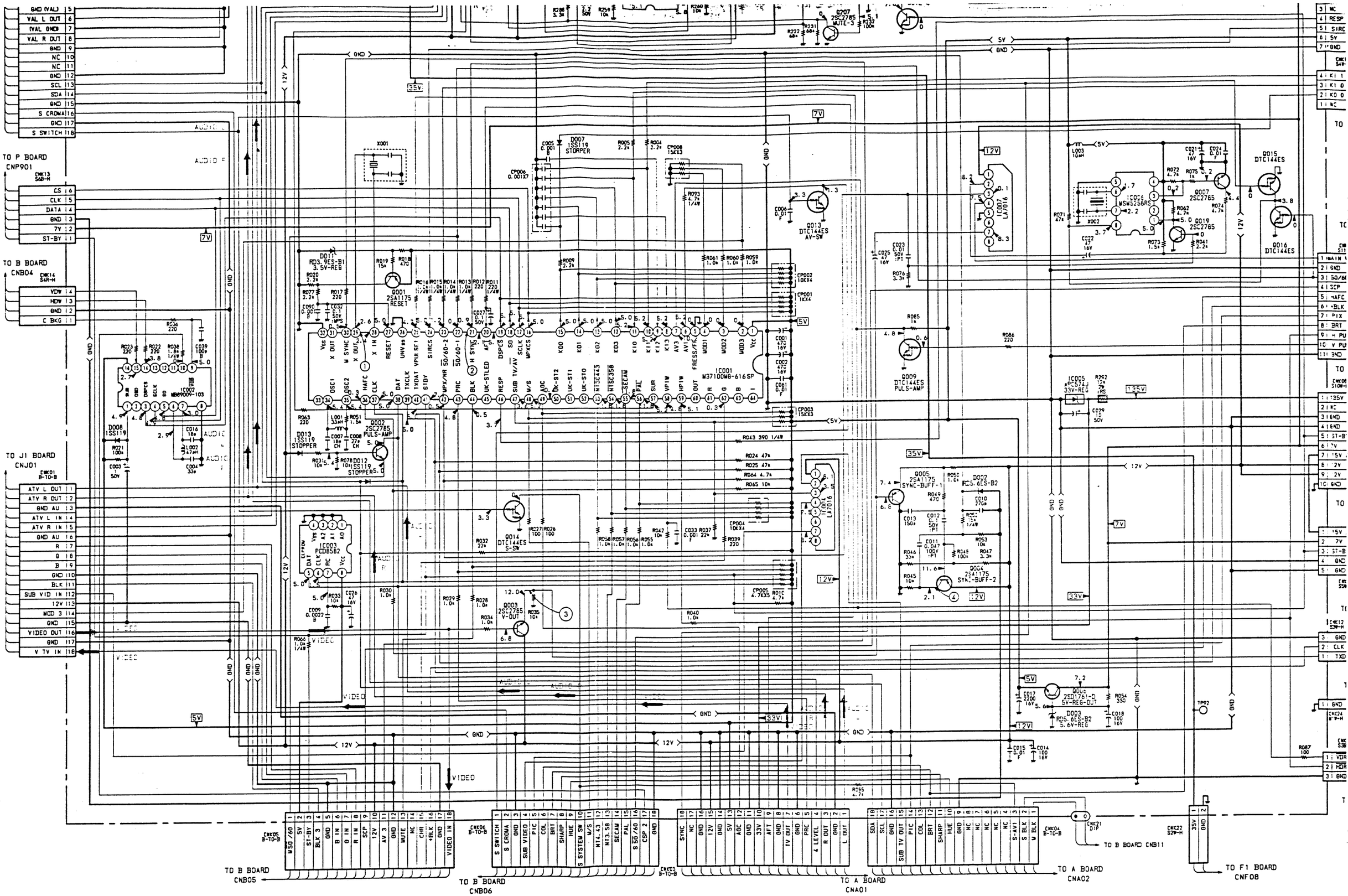
J1 [AV SW, VIDEO AMP]

www.manualscenter.com

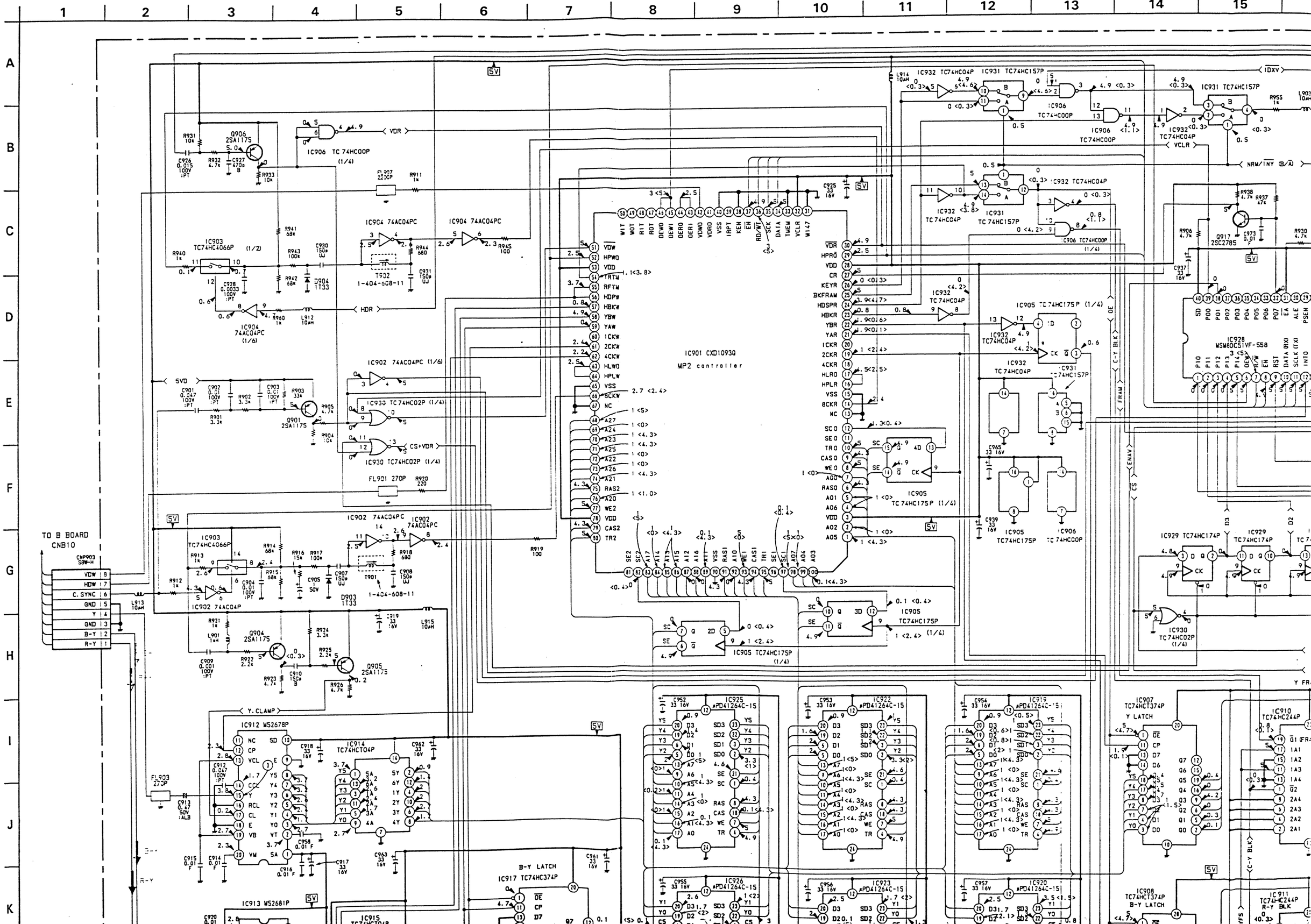
PRINTED WIRING BOARD

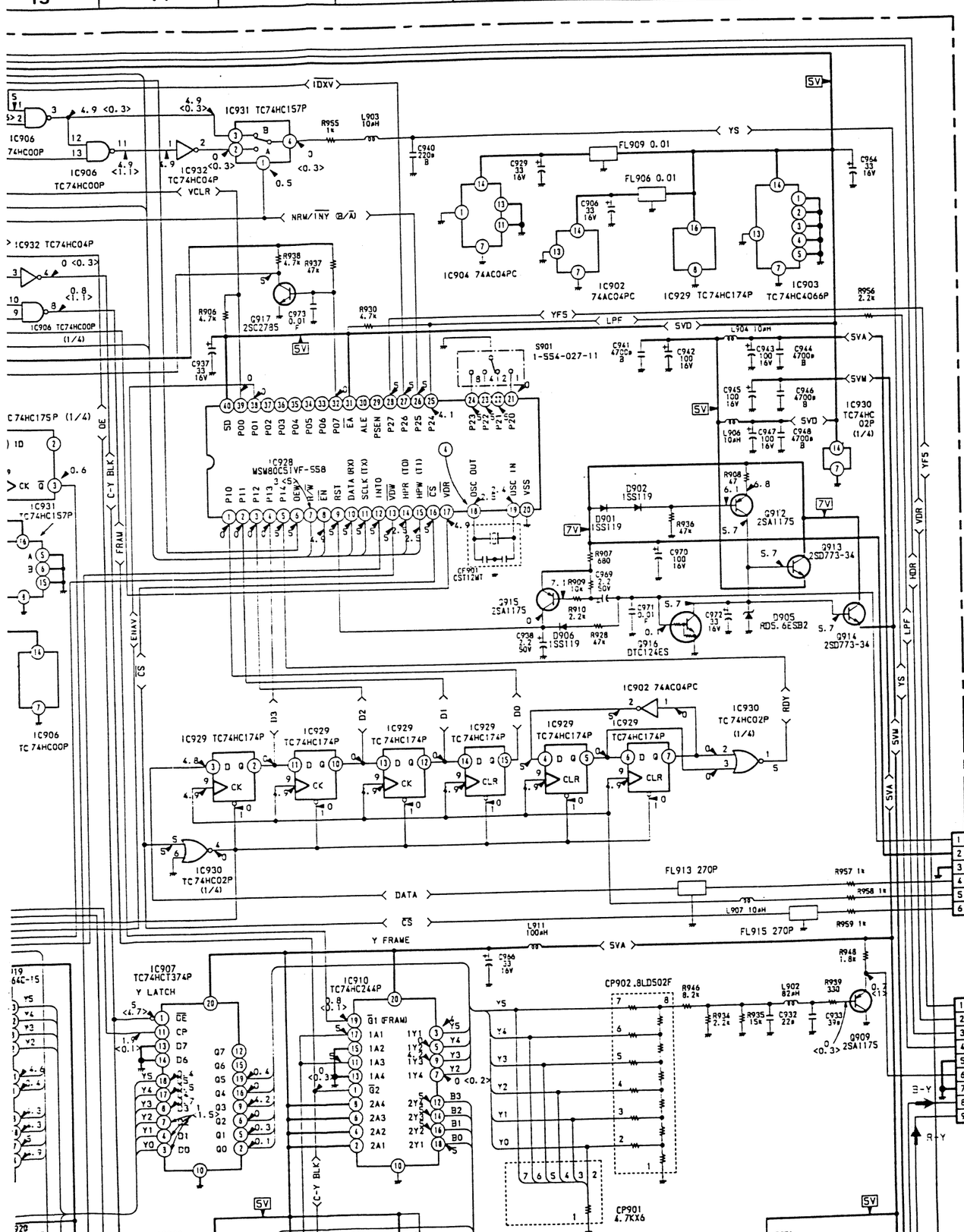
–Conductor Side–

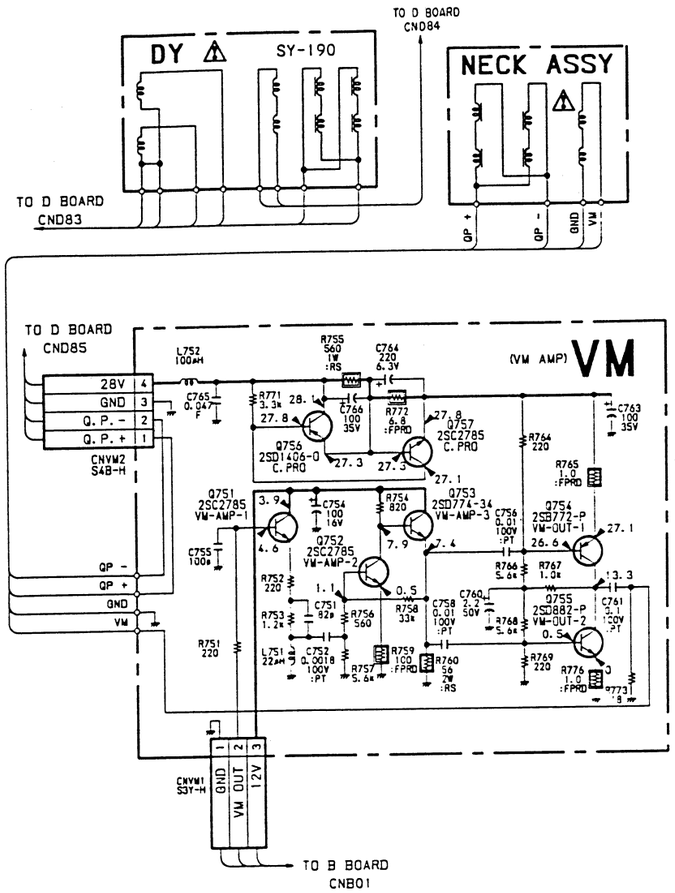
– J1 Board –


TO P BOARD CNP901
TO B BOARD CNB04
TO J1 BOARD CNJ01
TO B BOARD CNB05
TO B BOARD CNB06
TO A BOARD CNA01
TO A BOARD CNA02
TO B BOARD CNB11
TO F1 BOARD CNF08
IC001 M37100M8-616SP
IC002 M5M9909-103
IC003 PCD85B2
IC004 LA7016
IC005 AP5574J 33V-REG
IC007 LA7016
Q001 2SA1175 RESET
Q002 2SC2785 PULS-AMP
Q003 2SC2785 V-OUT
Q004 2SA1175 SYNC-BUFF-2
Q005 2SA1175 SYNC-BUFF-1
Q006 2SD1761-D 5V-REG-OUT
Q007 2SC2765
Q009 DTC144ES PULS-AMP
Q013 DTC144ES AV-SW
Q014 DTC144ES S-SW
Q015 DTC144ES
Q016 DTC144ES
Q019 2SC2765
D001 RD3.9ES-B1 3.5V-REG
D002 RD5.6ES-B2
D003 RD5.6ES-B2 5.6V-REG
D007 1SS119 STOPPER
D008 1SS119
D012 1SS119 STOPPERS
D013 1SS119 STOPPER
X001
X002
GND
5V
7V
12V
33V
35V
VIDEO
AUDIO

MC-Service


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J K
5V
VDR
HDR
SVD
Y. CLAMP
B-Y
R-Y
TO B BOARD
CNB10
CNP903
S8V-H
VDW 8
HDW 7
C. SYNC 6
GND 5
Y 4
GND 3
B-Y 2
R-Y 1
IC901 CXD1093Q
MP2 controller
IC903 TC74HC4066P (1/2)
IC904 74AC04PC (1/6)
IC902 74AC04PC (1/6)
IC930 TC74HC02P (1/4)
IC906 TC74HC00P (1/4)
IC912 M52678P
IC913 M52681P
IC914 TC74HCT04P
IC915 TC74HCT04P
IC916 TC74HCT04P
IC917 TC74HC374P
B-Y LATCH
IC907 TC74HCT374P
Y LATCH
IC908 TC74HCT374P
B-Y LATCH
IC909 TC74HCT374P
R-Y LATCH
IC910 TC74HC244P
IC911 TC74HC244P
R-Y BLK
IC905 TC74HC175P (1/4)
IC906 TC74HC00P
IC928 M5M80C51VF-558
IC929 TC74HC174P
IC930 TC74HC02P (1/4)
IC931 TC74HC157P
IC932 TC74HC04P
IC922 μPD41264C-15
IC923 μPD41264C-15
IC925 μPD41264C-15
IC926 μPD41264C-15
Q901 2SA1175
Q902 2SA1175
Q903 2SA1175
Q904 2SA1175
Q905 2SA1175
Q906 2SA1175
Q917 2SC2785
T901 1-404-608-11
T902 1-404-608-11
D903 1T33
D904 1T33
FL901 270P
FL902 220P
FL903 270P
FL904 220P
R911 1k
R919 100
R920 220
R955 1k
C925 33 16V
C926 0.015 100V :PT
C927 470p B
C928 0.0033 100V :PT
C929 0.01 F
C930 150p UJ
C931 150p UJ
C937 33 16V
C939 33 16V
C965 33 16V
C973 0.01 F
C901 0.047 100V :PT
C902 0.01 100V :PT
C903 0.01 100V :PT
C904 0.01 100V :PT
C905 1 50V
C906 0.01 100V :PT
C907 150p UJ
C908 150p UJ
C909 0.001 100V :PT
C910 150p B
C912 0.047 100V :PT
C913 0.47 50V :ALB
C914 0.01 F
C915 0.01 F
C916 0.01 F
C917 33 16V
C918 33 16V
C919 33 16V
C920 0.01 F
C958 0.01 F
C961 33 16V
C962 33 16V
C963 33 16V
L901 1mH
L912 10μH
L913 10μH
L914 10μH
L915 10μH
L903 10μH
CS+VDR
CS
ENAV
FRAM
OE
C-Y BLK
NRW/INY (B/A)
IDXV
VCLR



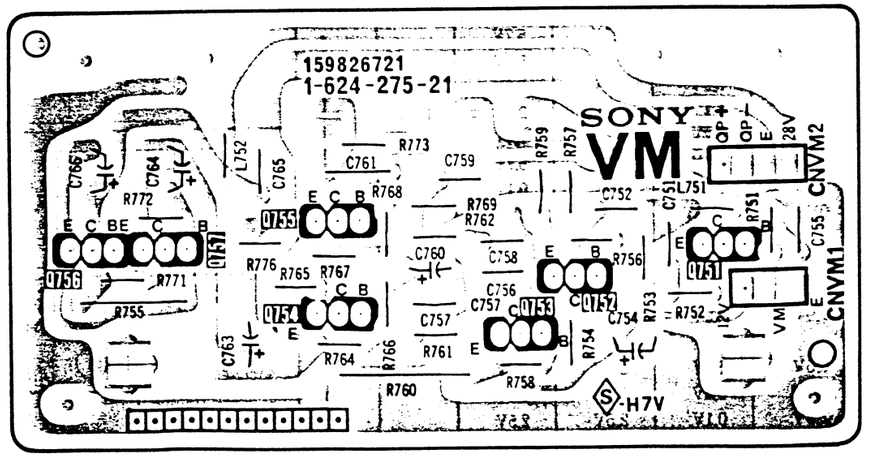


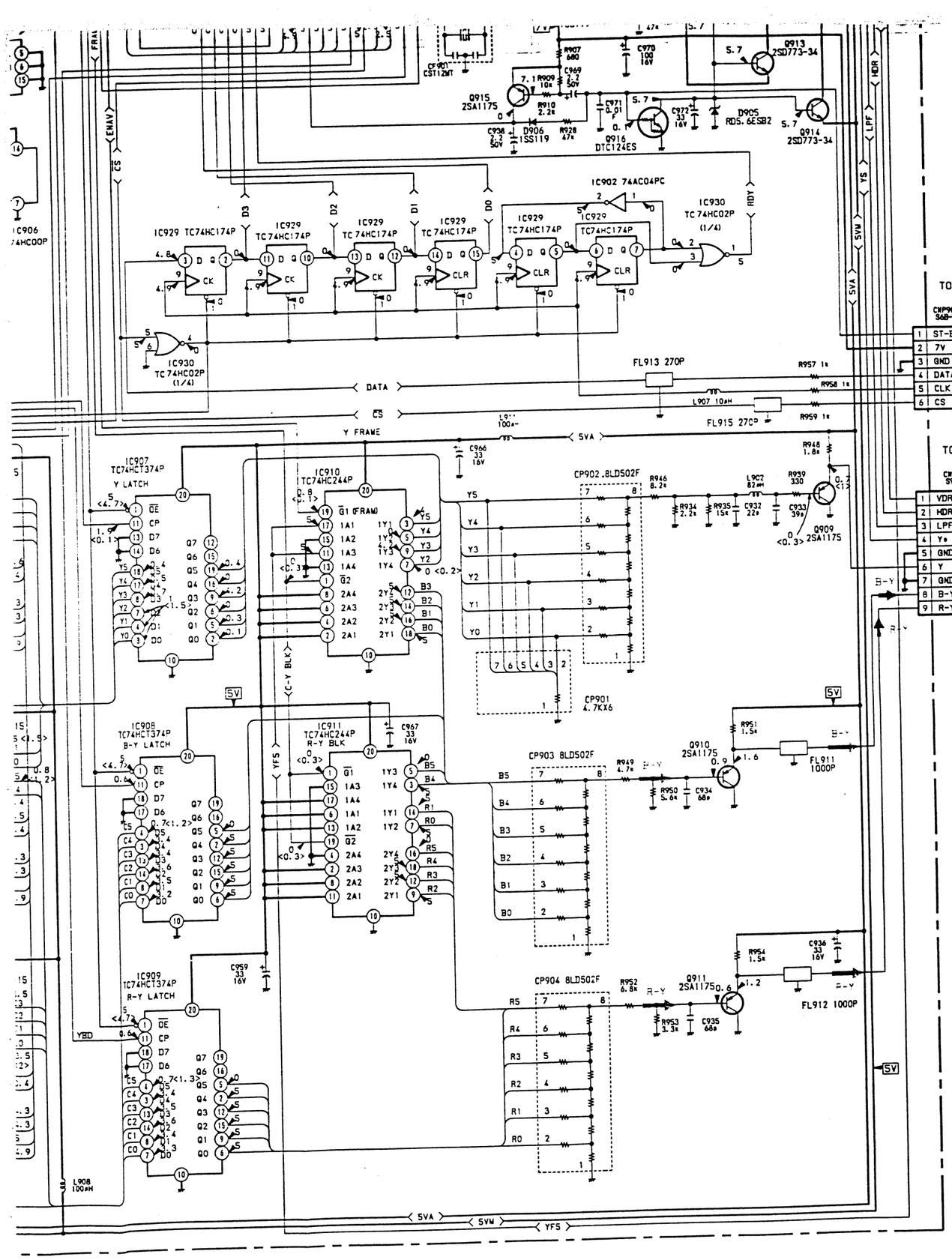
VM [VM AMP]

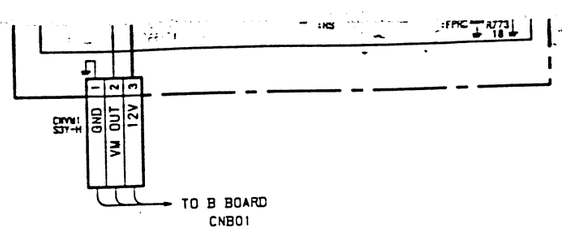
PRINTED WIRING BOARDS

–Conductor Side–

– VM Board –





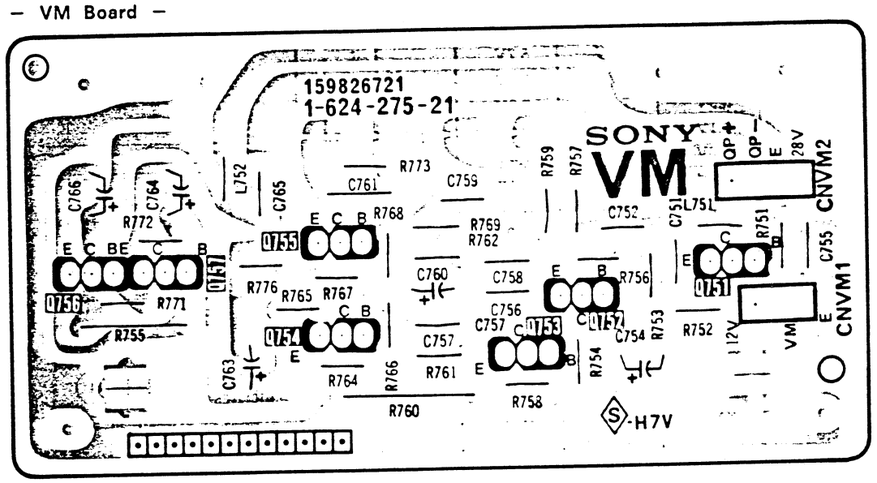


VM [VM AMP]

PRINTED WIRING BOARDS

–Conductor Side–

– VM Board –

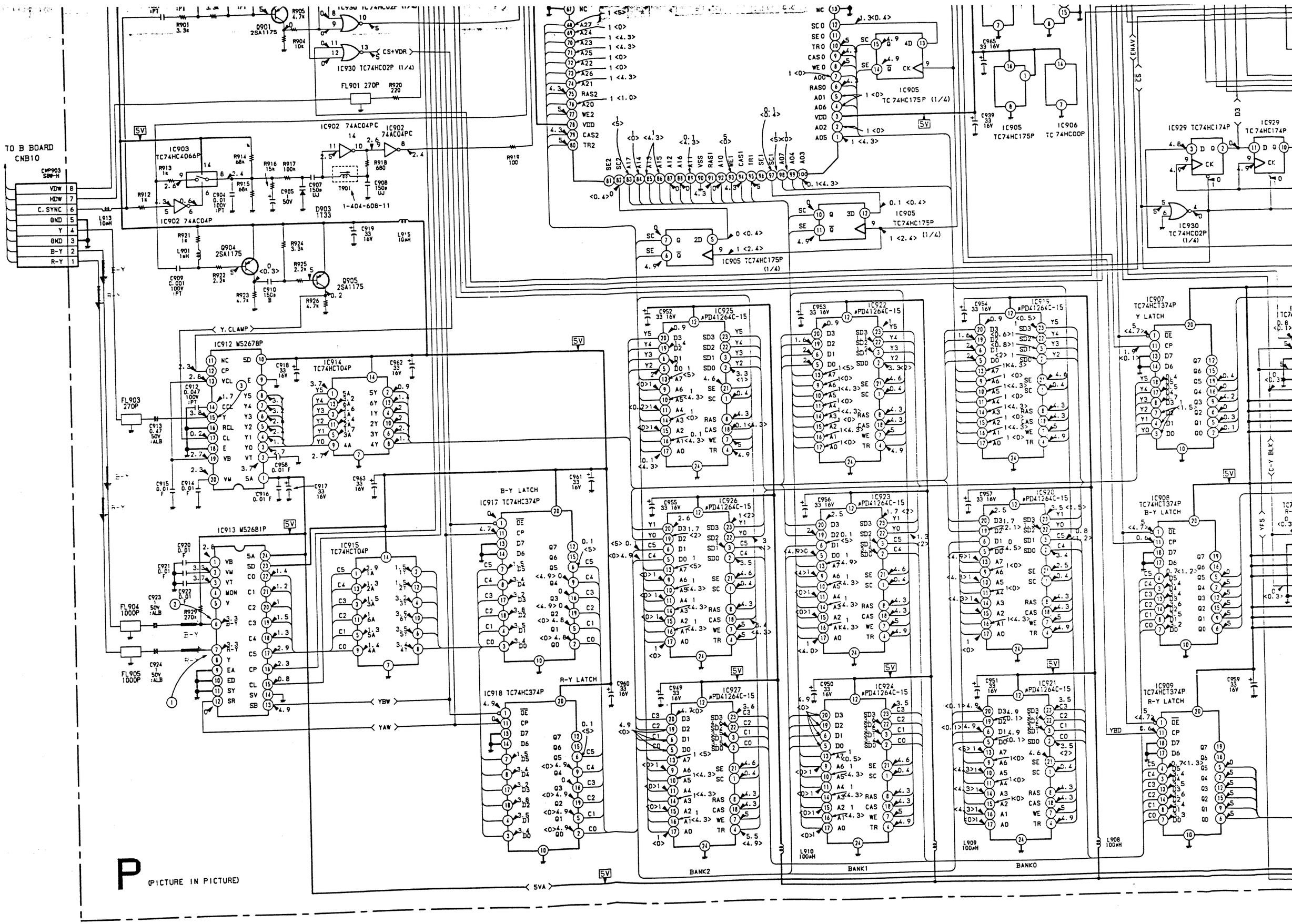


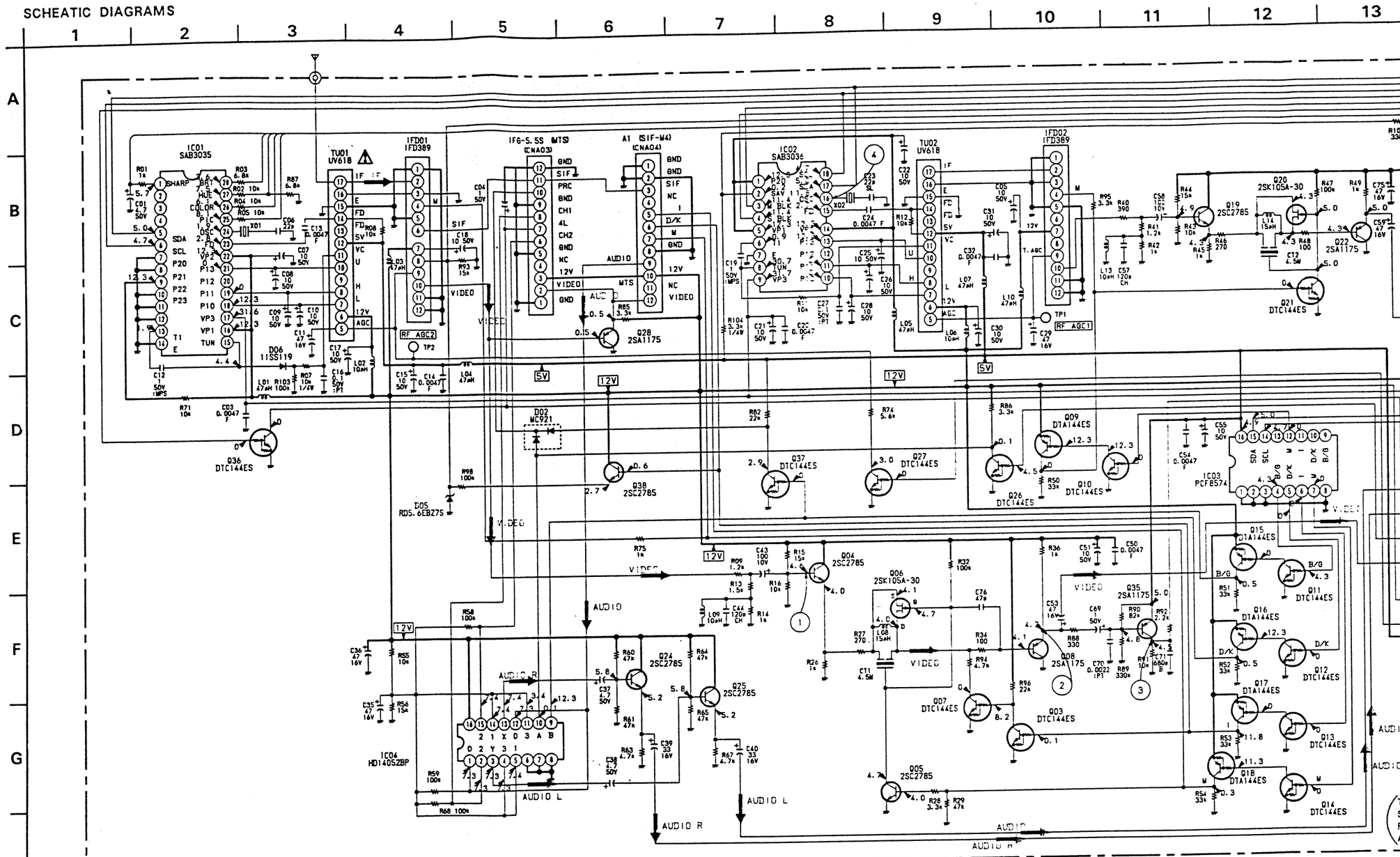
MC-Service

● P BOARD WAVEFORM

①	②	③	④
0.8 Vp-p (H)	0.7 Vp-p (H)	1.0 Vp-p (H)	4.8 Vp-p (10MHz)

The voltage value on the P board indicating with< >is the one at receiving Picture in picture (P/P)

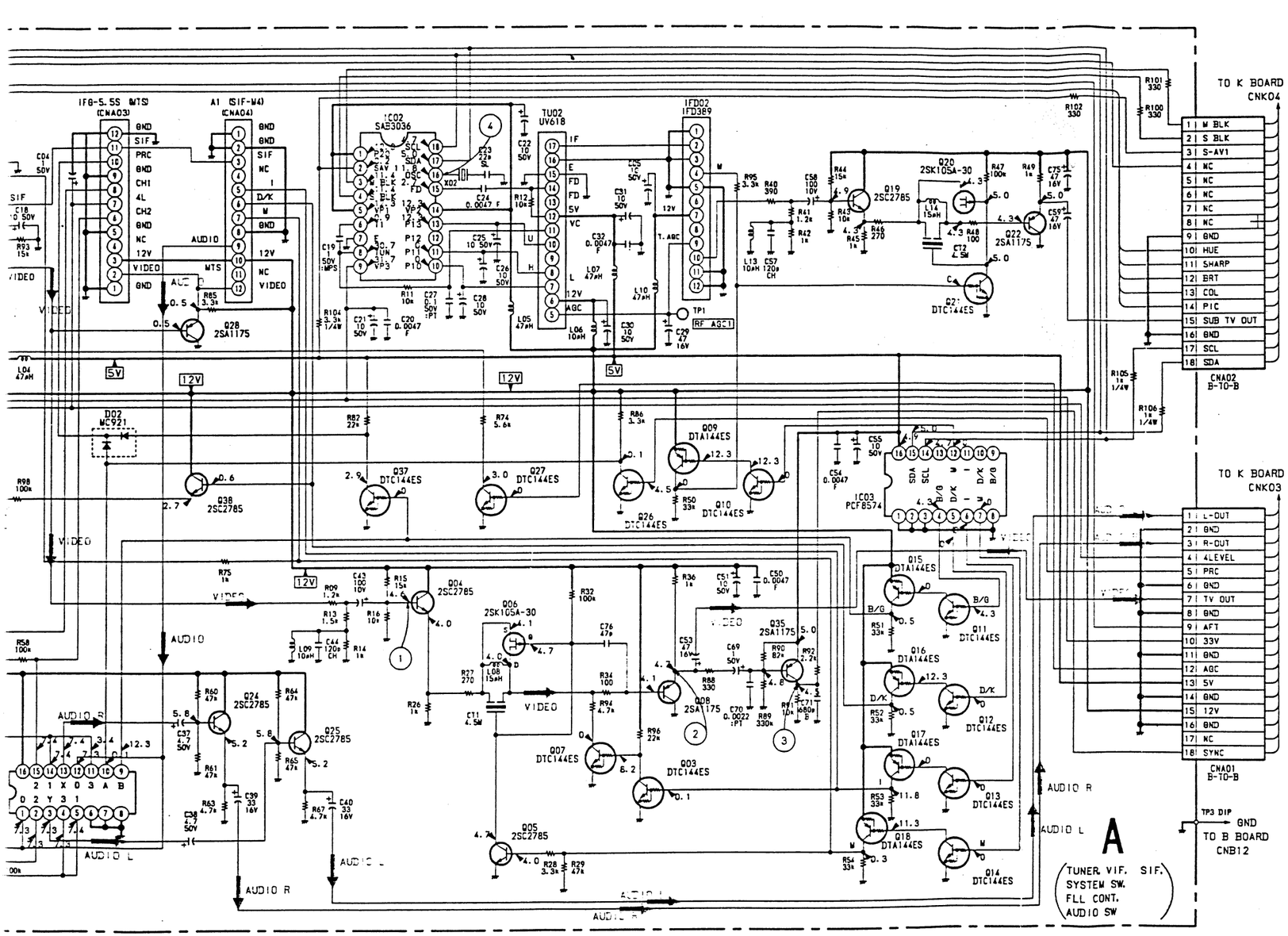

TO B BOARD
CNB10
CMP903
SBK-H
VDW 8
HDW 7
C. SYNC 6
GND 5
Y 4
GND 3
B-Y 2
R-Y 1
IC902 74AC04PC
IC903
TC74HC4066P
IC912 M52678P
IC913 M52681P
IC914
TC74HCT04P
IC915
TC74HCT04P
IC917 TC74HC374P
B-Y LATCH
IC918 TC74HC374P
R-Y LATCH
IC925
μPD41264C-15
IC926
μPD41264C-15
IC927
μPD41264C-15
IC922
μPD41264C-15
IC923
μPD41264C-15
IC924
μPD41264C-15
IC915
μPD41264C-15
IC920
μPD41264C-15
IC921
μPD41264C-15
IC905
TC74HC175P (1/4)
IC906
TC74HC00P
IC907
TC74HCT374P
Y LATCH
IC908
TC74HCT374P
B-Y LATCH
IC909
TC74HCT374P
R-Y LATCH
IC929 TC74HC174P
IC930
TC74HC02P (1/4)
Q901 2SA1175
Q904 2SA1175
Q905 2SA1175
T901 1-404-608-11
D903 1133
FL901 270P
FL903 270P
FL904 1000P
FL905 1000P
Y. CLAMP
YBW
YAW
5VA
BANK2
BANK1
BANK0
L909 100μH
L908 100μH
L910 100μH
P (PICTURE IN PICTURE)



MC-Service

● A BOARD WAVEFORM

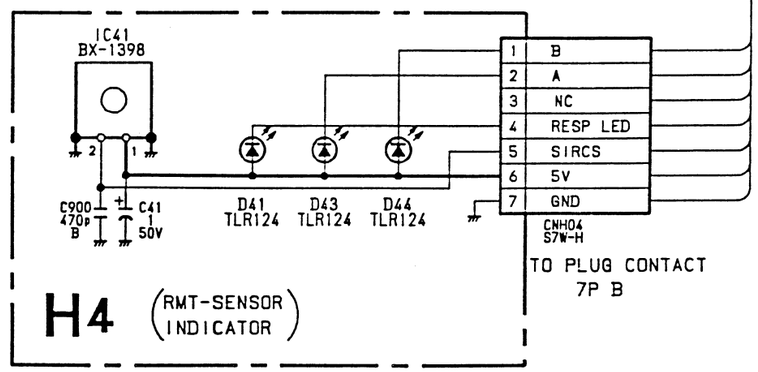
①	②	③
1.1 Vp-p (H)	1.1 Vp-p (H)	0.8 Vp-p (H)



TO K BOARD
CNK16

B	1	1	B
A	2	2	A
NC	3	3	NC
RESP LED	4	4	RESP LED
SIRCS	5	5	SIRCS
5V	6	6	5V
GND	7	7	GND

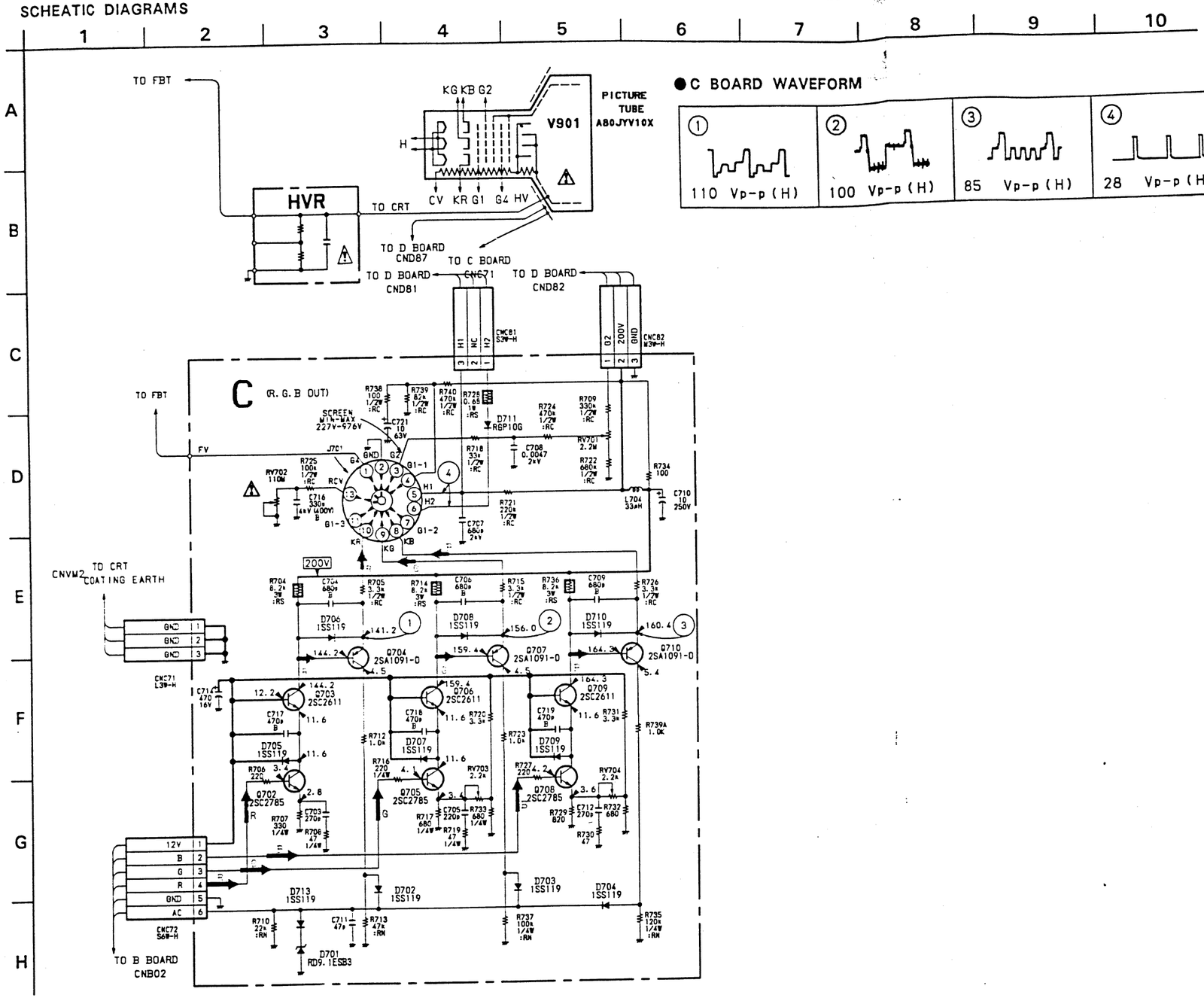
CONTACT 7P B　　PLUG CONTACT 7P B



● A BOARD WAVEFORM

①	②	③	④
1.1 Vp-p (H)	1.1 Vp-p (H)	0.8 Vp-p (H)	0.24 Vp-p (4MHz)

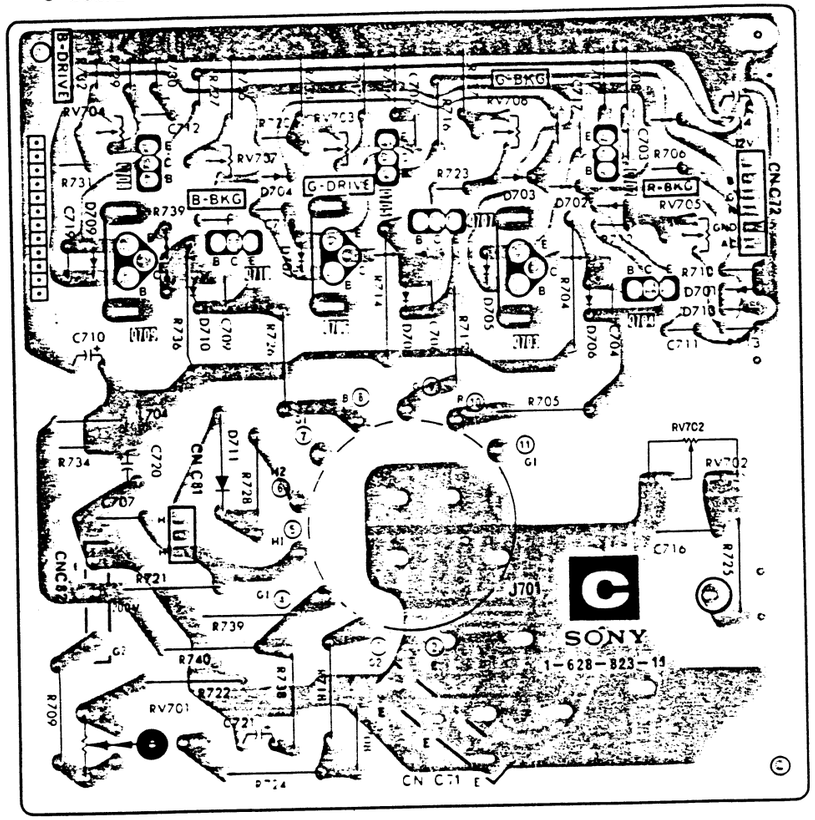
SCHEATIC DIAGRAMS



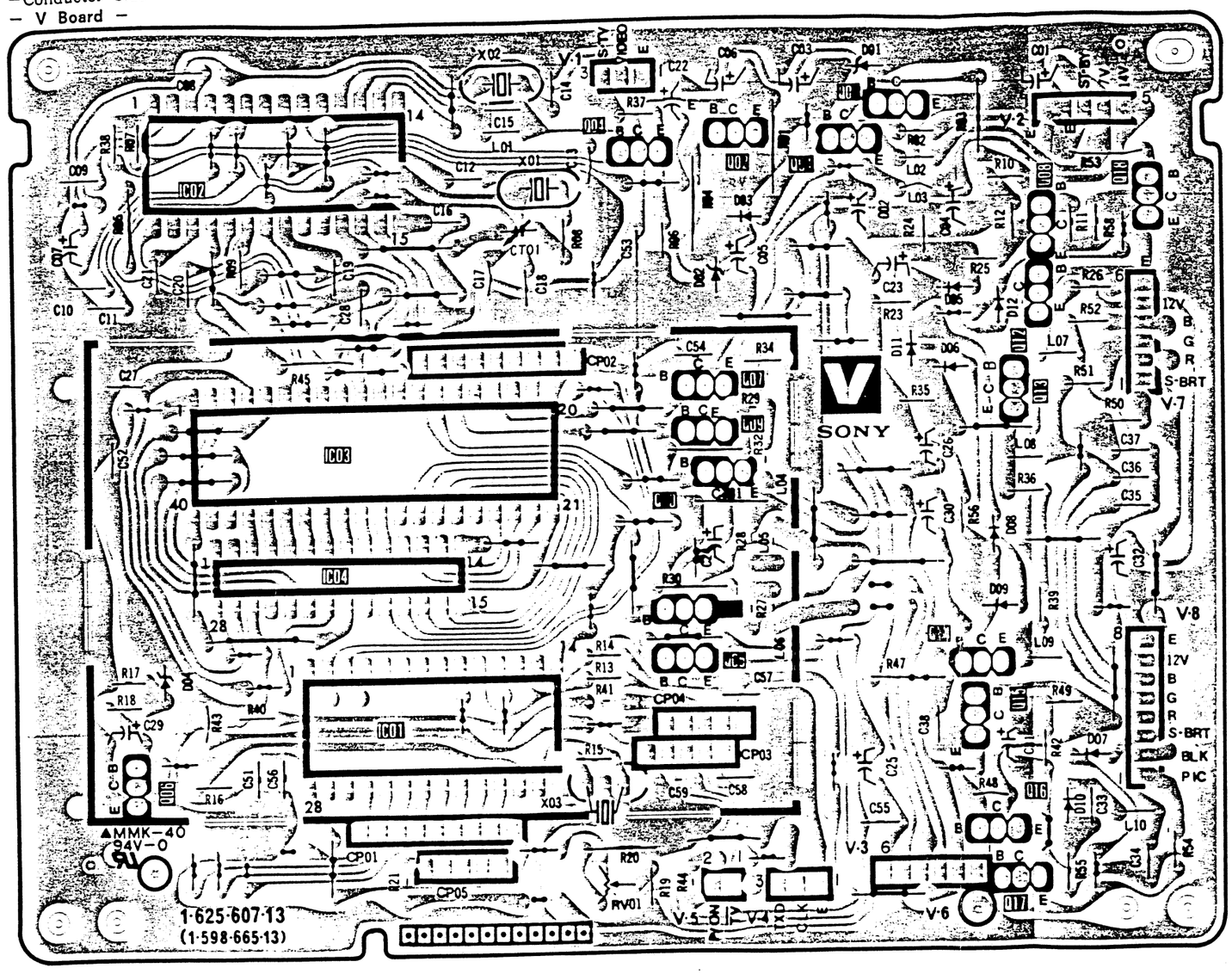
● C BOARD WAVEFORM

①	②	③	④
110 Vp-p (H)	100 Vp-p (H)	85 Vp-p (H)	28 Vp-p (H)

PRINTED WIRING BOARD
–Conductor Side–
– C Board –



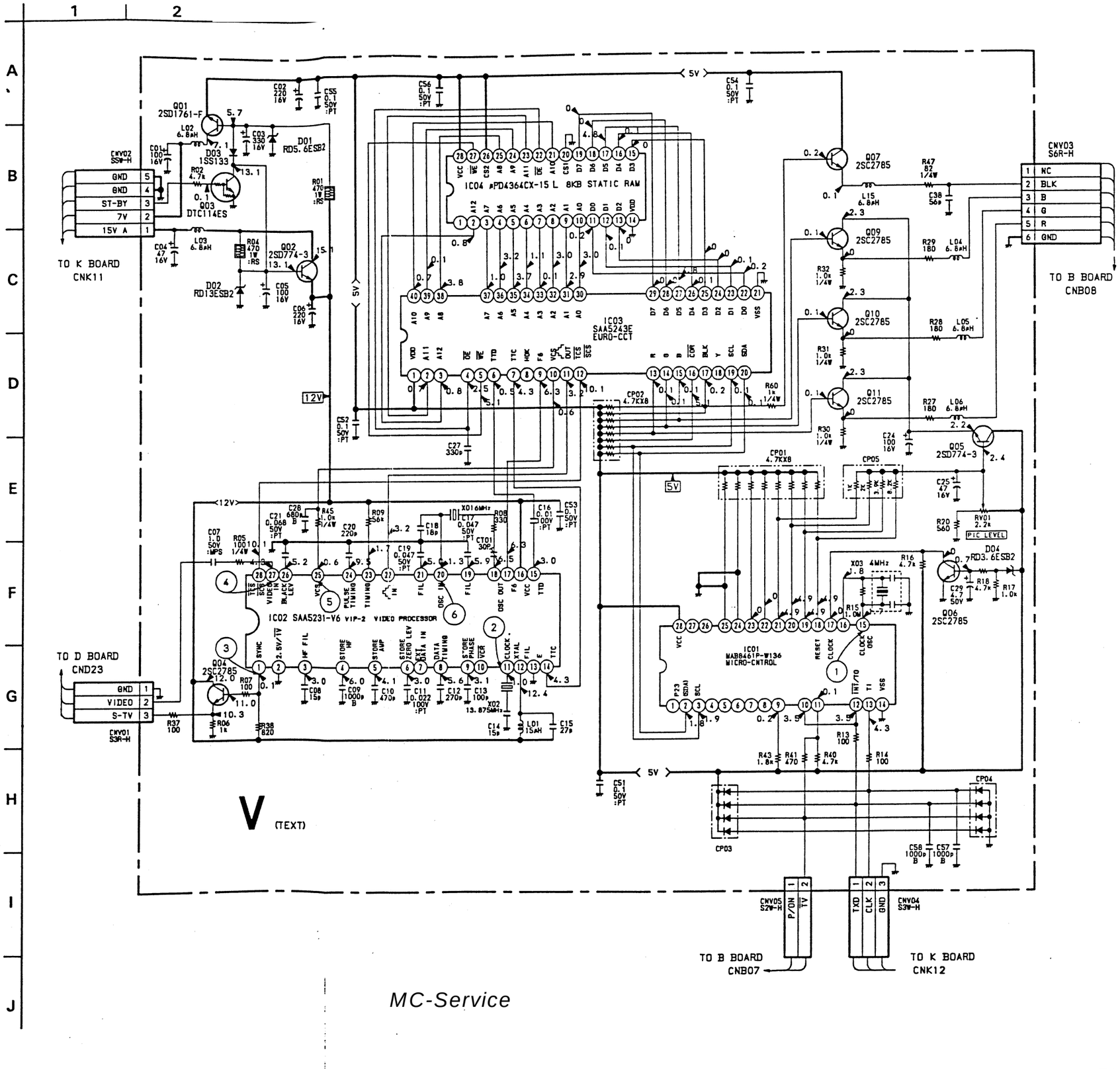
PRINTED WIRING BOARD
–Conductor Side–
– V Board –



SCHEATIC DIAGRAM

●V BOARD WAVEFORM

① 3.5Vp-p (4MHz)	④ 1.0 Vp-p (H)
② 0.56Vp-p (8.75MHz)	⑤ 2.9 Vp-p (H)
③ 1.0 Vp-p (H)	⑥ 0.4Vp-p (6MHz)

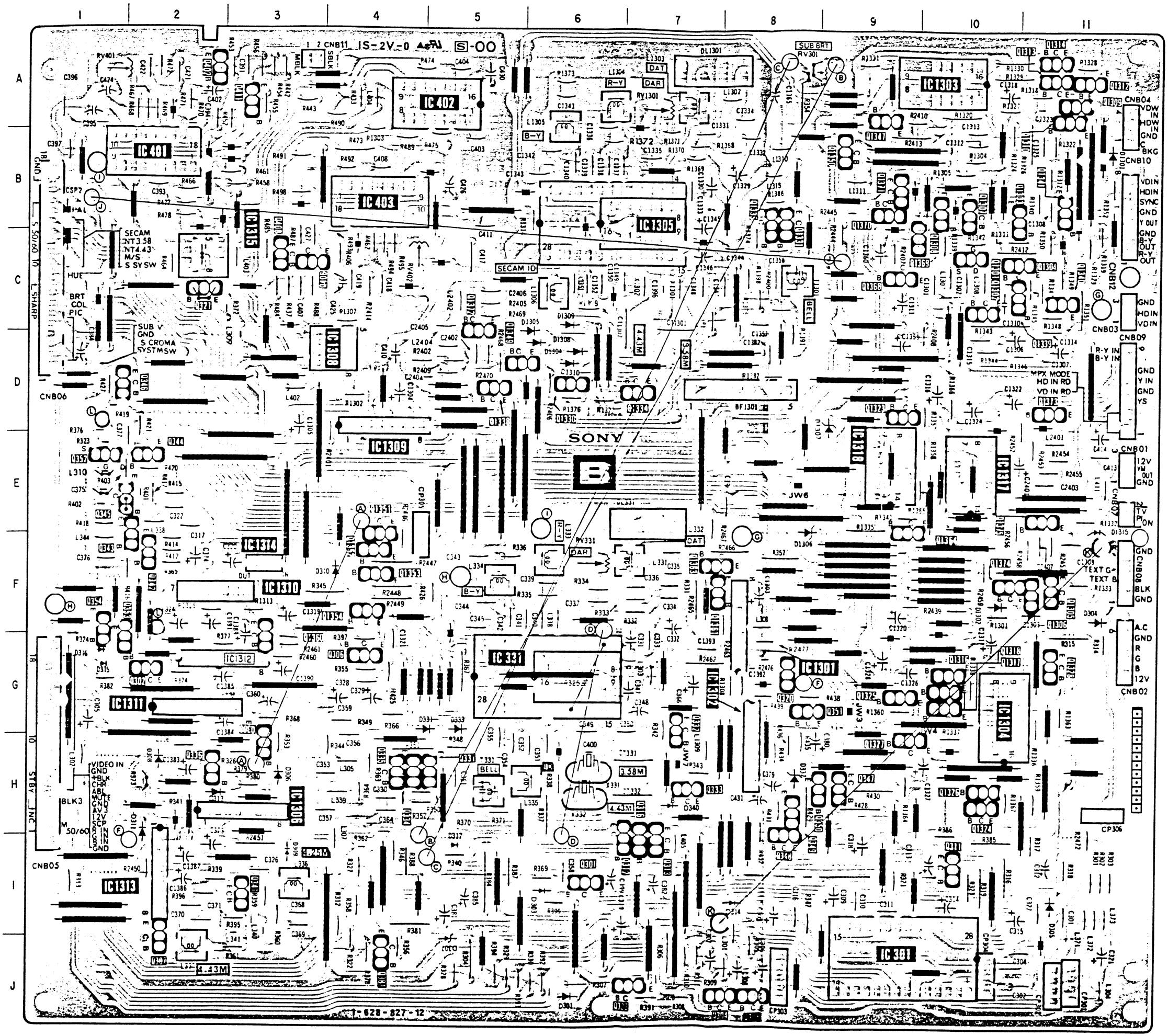


PRINTED WIRING BOARD
–Conductor Side–
– B Board –

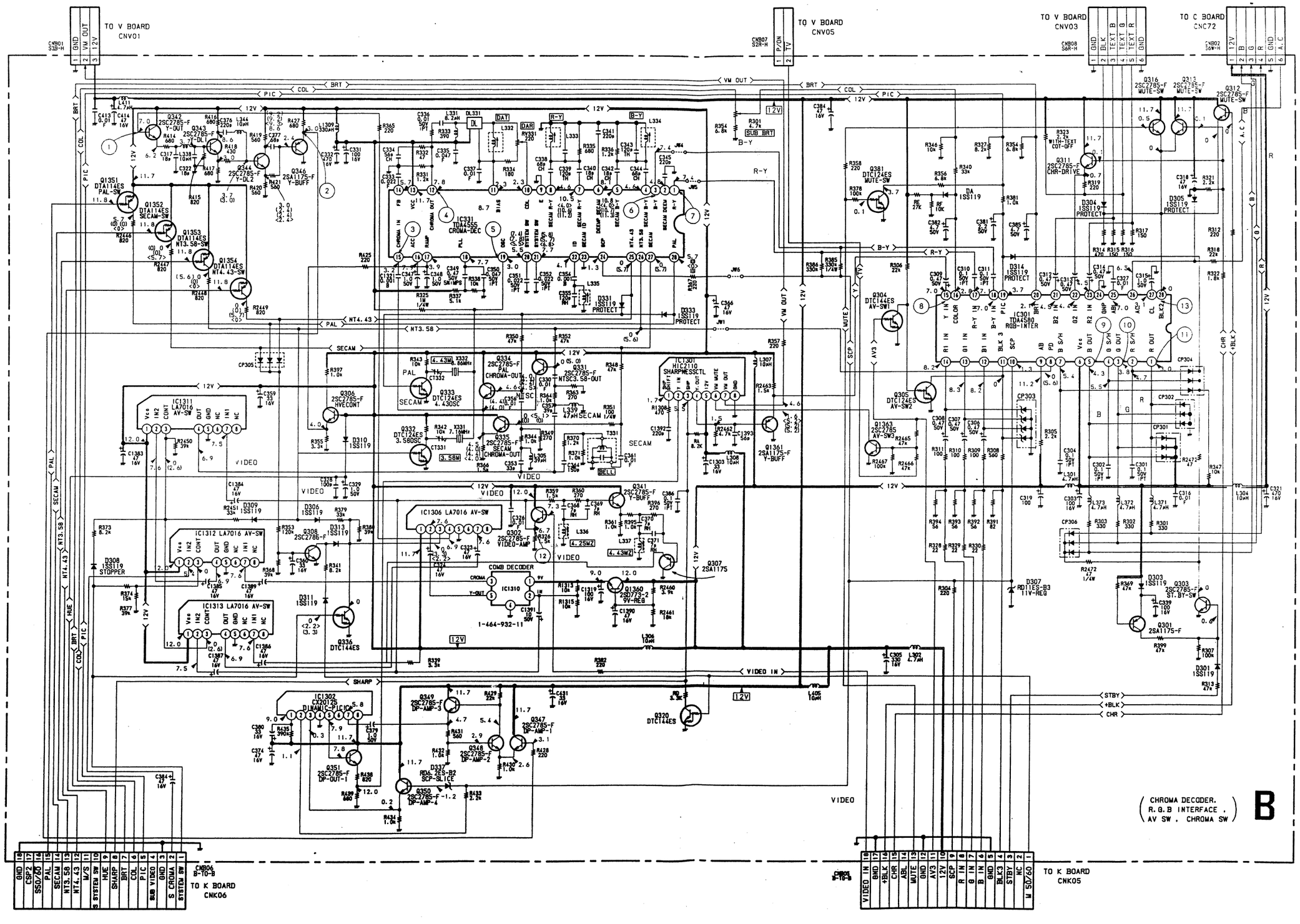
MC-Service

CHROMA DECODER
R, G, B INTERFACE
AV SW CHROMA SW

B



5-10. SCHEMATIC DIAGRAM (4)



●B BOARD WAVEFORM

①	0.8 Vp-p (H)	⑧	0.2 V
②	0.5Vp-p (H)	⑨	4.0 V
③	0.1Vp-p (H)	⑩	4.0 V
④	1.5Vp-p (H)	⑪	4.0 V
⑤	0.15Vp-p (3.58MHz)	⑫	0.8 V
⑥	1 Vp-p (H)	⑬	40.0 V
⑦	0.8Vp-p (H)		

[CHROMA DECODER, R•G•B INTEREFACE, AV SW, CHROMA SW.] **B**

5-11. PRINTED WIRING BOARDS (4)

—conductor side—

—B Board—

) WAVEFORM

(H)	⑧ 0.2 Vp-p (H)
(H)	⑨ 4.0 Vp-p (H)
(H)	⑩ 4.0 Vp-p (H)
(H)	⑪ 4.0 Vp-p (H)
p Hz)	⑫ 0.8Vp-p (H)
(H)	⑬ 40.0Vp-p (V)
(H)	

IC		Q350	H-8
IC301	J-9	Q351	G-8
IC331	G-5	Q381	J-4
IC1301	G-8	Q1351	F-4
IC1302	H-8	Q1352	F-4
IC1306	H-3	Q1353	F-4
IC1310	F-3	Q1354	F-4
IC1311	G-2	Q1360	G-4
IC1312	F-1	Q1361	F-8
IC1313	I-2	Q1363	F-7

TRANSISTOR		DIODE	
Q301	I-6	D301	J-6
Q302	G-2	D302	I-6
Q303	J-6	D303	I-6
Q304	J-7	D304	F-11
Q305	J-8	D305	I-11
Q306	G-4	D306	H-3
Q307	J-2	D307	I-6
Q308	G-3	D308	H-2
Q311	I-10	D309	I-3
Q312	I-6	D310	F-4
Q313	I-7	D311	H-2
Q316	H-7	D313	H-2
Q320	G-7	D314	I-10
Q331	H-5	D331	G-4
Q332	G-7	D333	G-5
Q333	H-7	D337	H-8
Q334	H-4	VARIABLE RESISTOR	
Q335	H-4	RV301	A-7
Q336	H-2	RV331	F-6
Q341	I-3		
Q342	F-2		
Q343	F-1		
Q344	E-2		
Q345	F-1		
Q346	D-1		
Q347	H-9		
Q348	H-8		
Q349	H-8		

